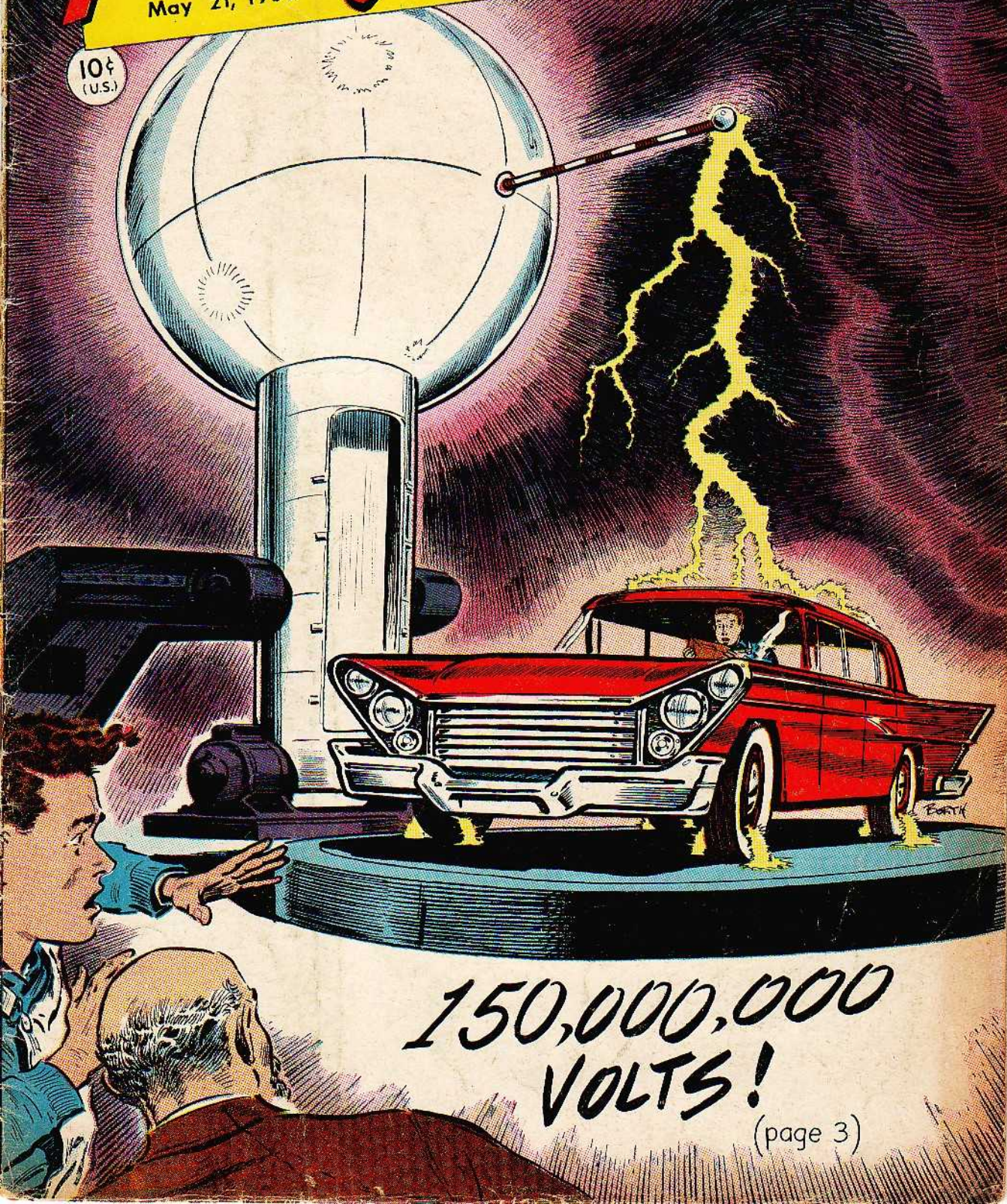


Treasure Chest[®]

Vol. 14 No. 19
May 21, 1959
OF FUN & FACT

10¢
(U.S.)

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150,000,000
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(page 3)

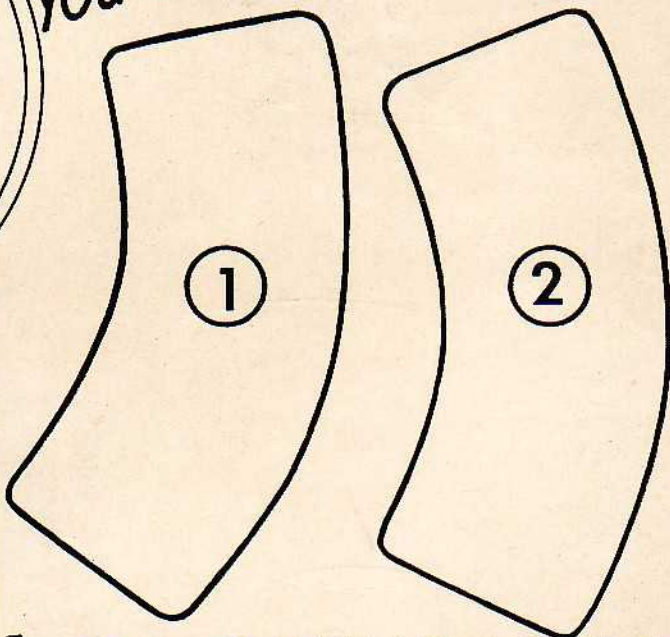


WEB COMIC
UNIVERSE.COM

**DON'T
BELIEVE
ALL YOU
SEE!**

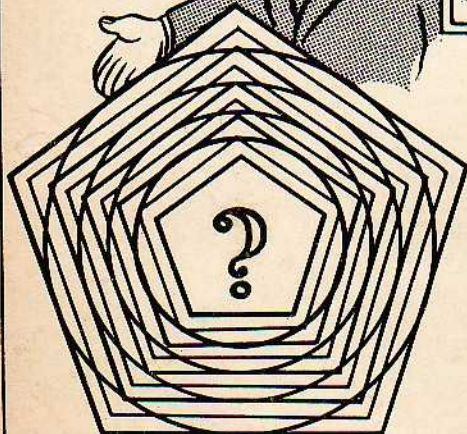
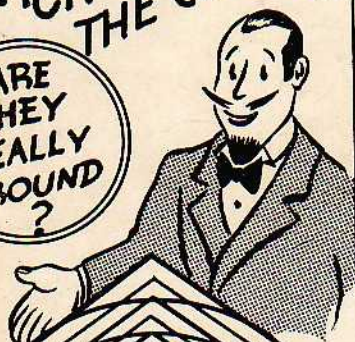
YOU CAN MAKE MAGIC ARCS...

CAN YOU ALWAYS
BELIEVE ALL YOU SEE?
SOMETIMES WE WONDER
AND SO WILL YOU
AFTER LOOKING OVER
THESE "FOOLERS"!



**WATCH
THE CIRCLES!**

**ARE
THEY
REALLY
ROUND?**



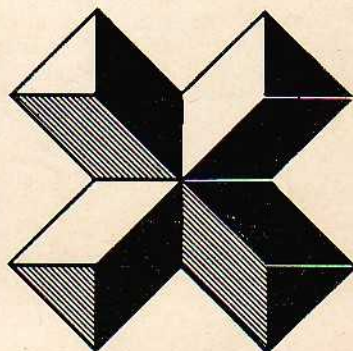
TO CHECK PLACE A COIN
IN THE CENTER

IT IS EASY TO MAKE A PAIR OF MAGIC
ARCS. TRACE THE ABOVE DRAWING ON
STIFF CARDBOARD AND CUT OUT CARE-
FULLY WITH SCISSORS. YOU ARE NOW
READY TO HAVE FUN FOOLING YOUR
FRIENDS. WHEN YOU HOLD THEM SIDE
BY SIDE THEY SEEM DIFFERENT LENGTHS
BUT WHEN YOU PUT ONE OVER THE
OTHER THEY ARE EXACTLY THE SAME.

The JUMPING "X"

LOOK AT THIS
FIGURE WITH
YOUR EYES OPEN
AND THEN HALF
CLOSED. THE
'JUMPING X' WILL
PROJECT UPWARD
AND THEN DOWN-
WARD.

TRY IT!



Chuck White[®]

and his friends

by Max Pine

COMING INTO THE HIGH-VOLTAGE GENERATOR ROOM, MIKE FINDS SPIKE HOLDING HIS PURSUERS AT BAY...

NOW I'LL WALK SLOWLY TOWARD THAT DOOR. NOT A MOVE FROM ANYONE OR I'LL PUT THE FLAME TO THIS PACKAGE OF **HOT STUFF!**

CHUCK-- HE DOESN'T SEE ME. MAYBE I CAN DISTRACT HIM AND YOU CAN RUSH HIM!

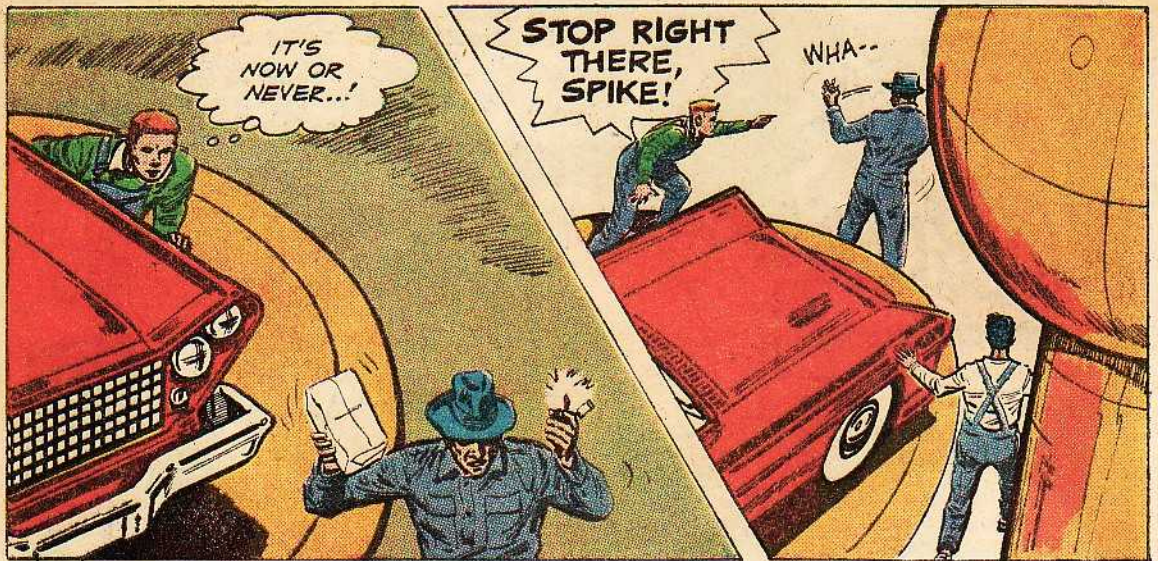
BE CAREFUL-- HE'S EXTREMELY DANGEROUS!

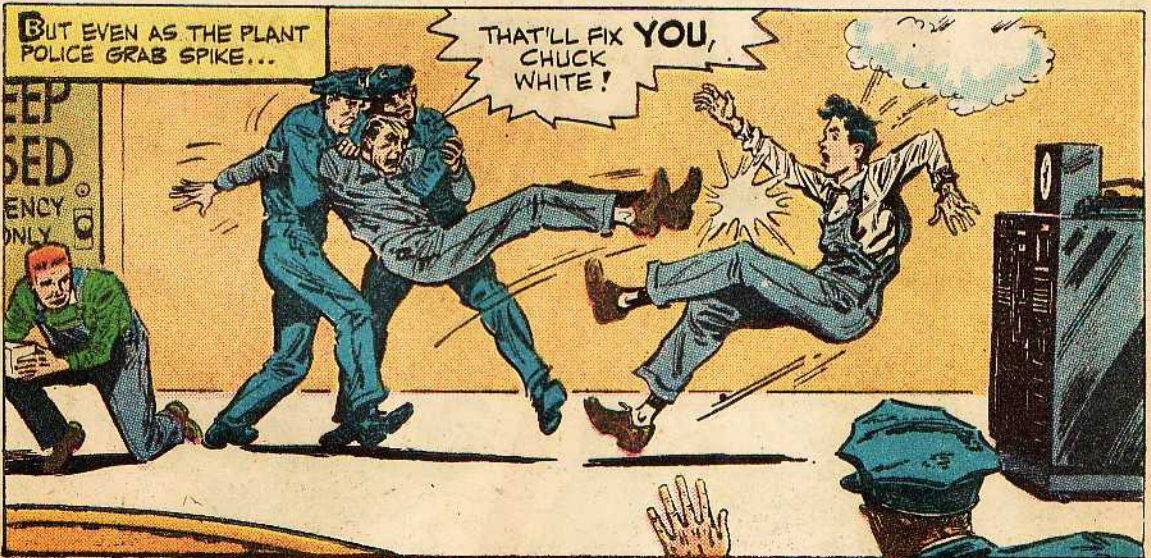
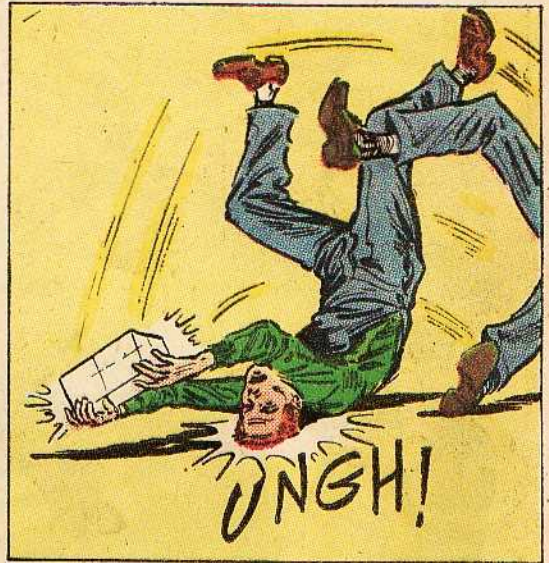
Illustrated by Frank Borzic

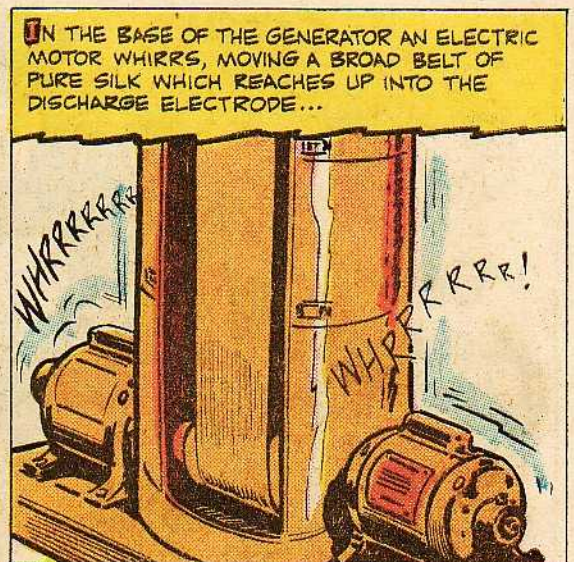
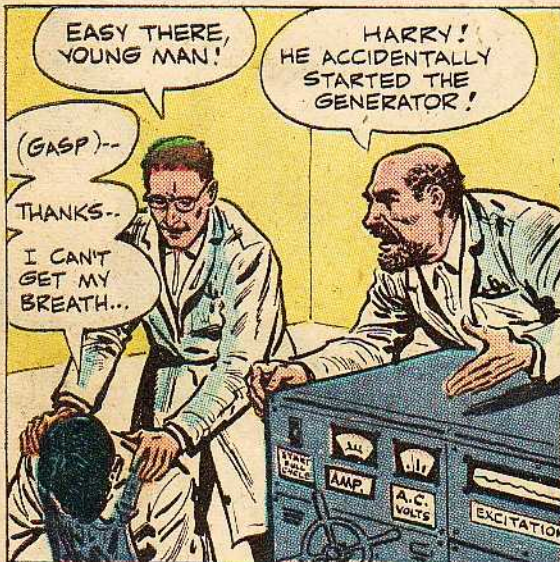
REMEMBER, I'M TAKING THE EXPLOSIVE WITH ME, SO DON'T TRY TO FOLLOW WHEN I GO OUT THAT DOOR!

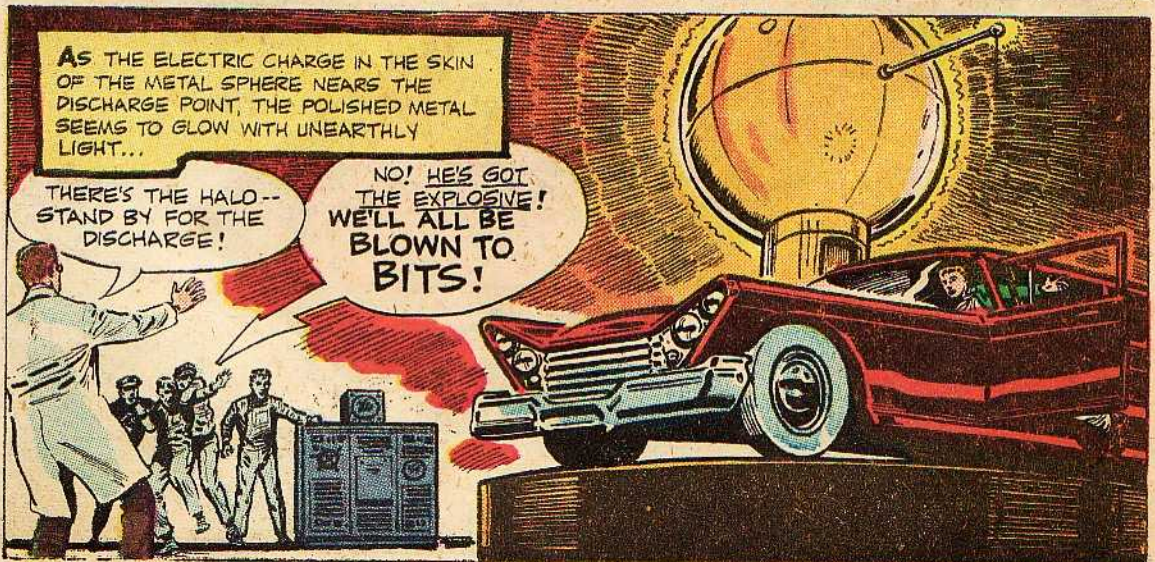
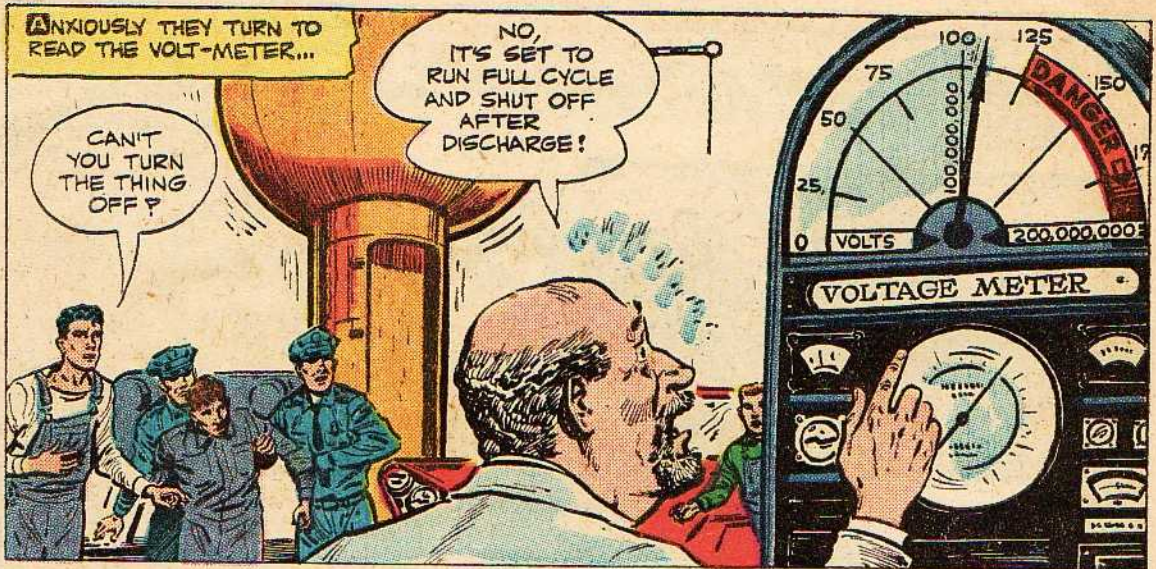
EXIT

KEEP CLOSED
EMERGENCY ONLY









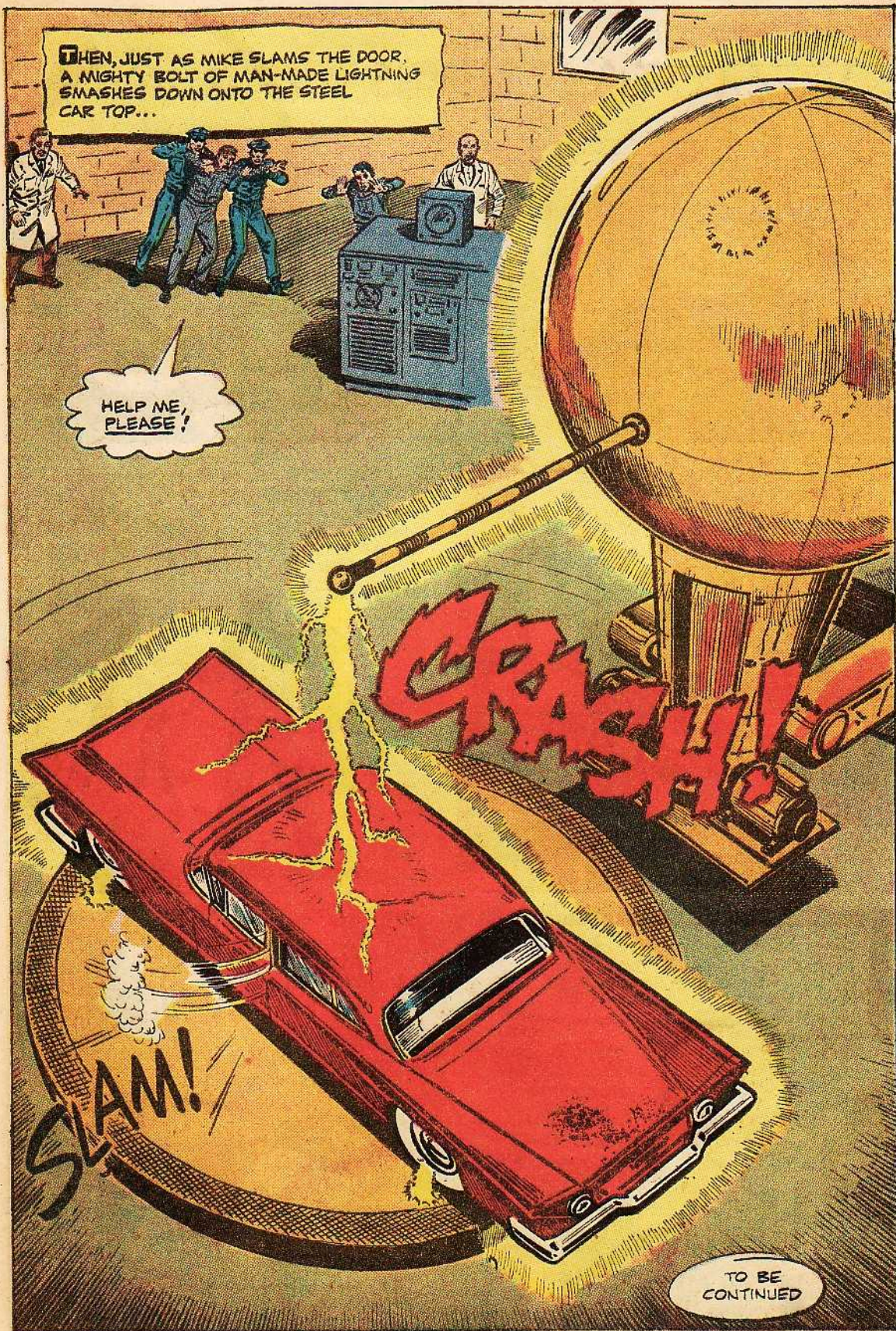
THEN, JUST AS MIKE SLAMS THE DOOR,
A MIGHTY BOLT OF MAN-MADE LIGHTNING
SMASHES DOWN ONTO THE STEEL
CAR TOP...

HELP ME,
PLEASE!

CRASH!

SLAM!

TO BE
CONTINUED



INTERESTING THINGS ABOUT COINS

A COIN QUIZ

1.  HERE IS A PENNY. SEE THE LETTER "D"? DO YOU KNOW WHAT IT MEANS?
2.  MANY PEOPLE LOOK FOR THIS NICKEL BECAUSE IT IS VERY VALUABLE. IT IS WORTH THOUSANDS OF DOLLARS. WHY SHOULD THEY STOP LOOKING FOR IT?
3.  WHAT DOES THIS DRAWING MEAN? THERE IS SOMETHING ON A PENNY WHICH GIVES THE ANSWER.

I'M A CITIZEN OF NEW YORK.

I'M A CITIZEN OF GEORGIA.

WE'RE ALL CITIZENS OF THE UNITED STATES.

SEE ANSWERS BELOW. ★

COINS OF THE PAST

SOMETIMES A STORE WILL SELL A CAN OF TOMATOES FOR, LET US SAY, 12½ CENTS. BUT YOU MUST PAY 13 CENTS BECAUSE THERE IS NO ½-CENT COIN USED IN OUR COUNTRY. THERE WAS A TIME LONG AGO, HOWEVER, WHEN HALF PENNIES WERE USED. THE ½-CENT COIN IS SHOWN HERE. OTHER COINS USED LONG AGO ARE ALSO SHOWN.



U.S. COINS OF THE FUTURE

IT COSTS MORE TO BUY THINGS NOW THAN IT DID A FEW YEARS AGO. SOME CANDY BARS, FOR EXAMPLE, MAY GO UP IN PRICE FROM 5¢ TO 7½¢. PERHAPS THERE WILL BE A NEW 7½¢ COIN. IT IS POSSIBLE THAT THERE MAY ALSO BE A 2½¢ COIN.

WHY DOES THE EDGE OF A DIME LOOK LIKE THIS?



SEE THE LITTLE RIDGES AROUND THE EDGE OF A DIME? THEY WERE PUT THERE TO KEEP DISHONEST PERSONS FROM CUTTING OFF THE EDGES OF COINS AND SELLING THE SILVER.

DISAPPEARING COINS

OLD

INDIAN PENNY

BUFFALO NICKEL



LIBERTY DIME



LIBERTY QUARTER



THESE OLD COINS ARE NOT BEING MADE ANYMORE. AS THE YEARS GO ON YOU WILL SEE FEWER AND FEWER OF THEM. SAVE THEM. THEY MAY BE WORTH EXTRA MONEY IN THE YEARS TO COME. PEOPLE WHO SAVE OLD COINS WILL PAY GOOD PRICES FOR THE ONES THAT ARE HARD TO GET.

THE INDIAN CHIEF SHOWN ON THIS PENNY WAS REALLY A GIRL. HER NAME WAS SARAH LONGACRE. HER FATHER WORKED IN THE U.S. MINT.

NEW

LINCOLN PENNY

YOU STILL SEE BUFFALO NICKELS BUT THEY HAVE NOT BEEN MADE IN MANY YEARS.

OUR NEWEST DIME, THE ROOSEVELT DIME WAS MADE IN 1946. THE DESIGN OF A COIN MAY BE CHANGED ONLY ONCE IN 25 YEARS, EXCEPT BY SPECIAL ACT OF CONGRESS.

THIS COIN IS NO LONGER MADE BUT YOU CAN STILL RECEIVE IT IN CHANGE.

THIS COIN WILL BECOME SCARCE SOMEDAY BECAUSE A NEW HALF DOLLAR WAS MADE TWO YEARS AGO. THE NEW COIN SHOWS BENJAMIN FRANKLIN.

JEFFERSON NICKEL



WASHINGTON QUARTER



ANSWERS TO COIN QUIZ

1. THE LETTER "D" MEANS THAT THE COIN WAS MADE IN DENVER. IF THERE IS NO LETTER ON THE COIN, IT WAS MADE IN PHILADELPHIA, THE ONLY OTHER CITY WHERE COINS ARE MADE.
2. ONLY A FEW OF THESE SCARCE NICKELS WERE EVER MADE--PERHAPS ONLY SIX--AND ALL OF THEM ARE OWNED BY PERSONS WHO SAVE VALUABLE COINS.
3. IN THE EARLY DAYS OF OUR COUNTRY EACH STATE WAS LIKE A SEPARATE COUNTRY. BUT THE STATES JOINED TOGETHER AND MADE A NEW COUNTRY, THE UNITED STATES. ON A PENNY, FOR EXAMPLE, YOU WILL SEE THE WORDS "E PLURIBUS UNUM." THIS IS LATIN FOR "ONE FROM MANY."

SILVER DOLLARS HAVE NOT BEEN MADE SINCE THE YEAR 1935 BUT YOU CAN STILL GET THEM AT THE BANK



ABOUT 500 YEARS AGO A MERCHANT WAS ON HIS WAY TO ROME WITH A PICTURE OF THE BLESSED VIRGIN. WHILE HE WAS AT SEA A GREAT STORM AROSE.

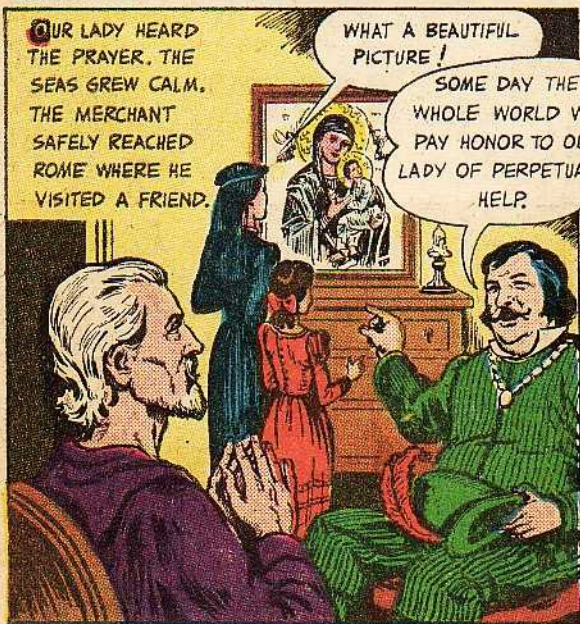
OUR LADY OF PERPETUAL HELP, SAVE US!



OUR LADY HEARD THE PRAYER. THE SEAS GREW CALM. THE MERCHANT SAFELY REACHED ROME WHERE HE VISITED A FRIEND.

WHAT A BEAUTIFUL PICTURE!

SOME DAY THE WHOLE WORLD WILL PAY HONOR TO OUR LADY OF PERPETUAL HELP.



A SHORT TIME LATER THE MERCHANT GREW SICK. HE KNEW HE WOULD SOON DIE. HE CALLED IN HIS FRIEND.

PROMISE ME THAT AFTER MY DEATH YOU WILL PLACE THE PICTURE IN A CHURCH.

I PROMISE.



BUT THE MAN DID NOT KEEP HIS PROMISE. THEN ONE DAY...

YOU MUST PUT MY PICTURE IN A CHURCH.

THE MAN WOULD NOT OBEY OUR LADY. A FEW DAYS LATER HE DIED. HIS WIFE KEPT THE PICTURE UNTIL ONE DAY HER DAUGHTER TOLD HER ABOUT A BEAUTIFUL LADY.

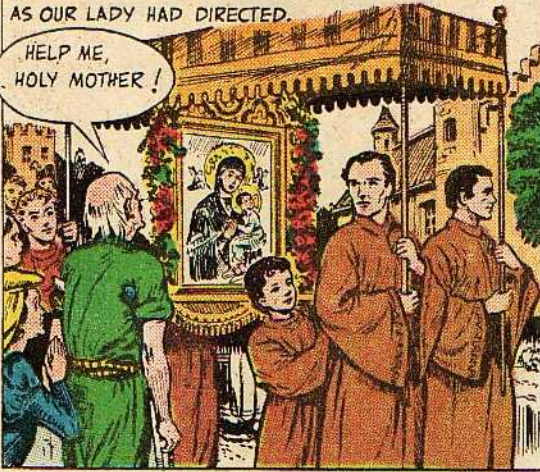
...AND THE LADY SAID, "TELL YOUR MOTHER THE PICTURE MUST BE PLACED IN A CHURCH AT ONCE."



STILL THE MAN WOULD NOT GIVE UP THE PICTURE. THREE TIMES OUR LADY CAME. AT LAST SHE TOLD HIM TO WAIT NO LONGER.

AT LAST THE WOMAN AGREED TO GIVE UP THE PICTURE. IT WAS TAKEN TO THE CHURCH OF ST. MATTHEW IN ROME AS OUR LADY HAD DIRECTED.

HELP ME, HOLY MOTHER!



FOR 300 YEARS THE PICTURE REMAINED IN ST. MATTHEW'S. THOUSANDS OF PEOPLE PRAYED AT THE SHRINE. MANY MIRACLES TOOK PLACE THERE.



THEN AN ENEMY ARMY INVADDED THE COUNTRY. DURING A HARD-FOUGHT BATTLE...



THE CHURCH OF ST. MATTHEW WAS COMPLETELY DESTROYED.

ONE OF THE PRIESTS RESCUED THE PICTURE AND HID IT IN A NEAR-BY MONASTERY.

OUR LADY'S PICTURE WILL BE SAFE HERE.



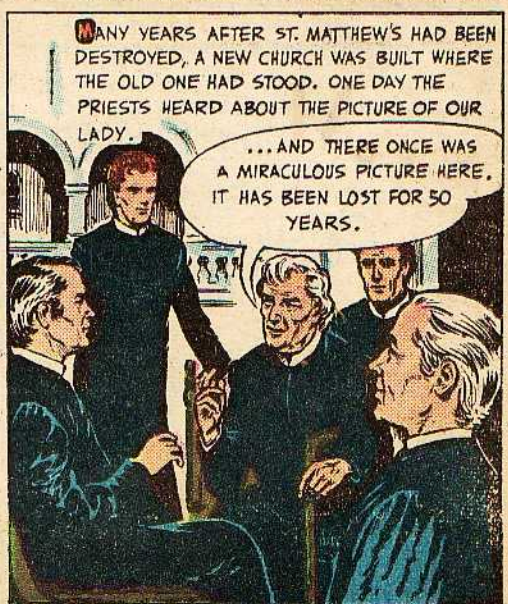
NEARLY EVERYONE THOUGHT THAT THE PICTURE HAD BEEN DESTROYED. SOON IT WAS ALMOST FORGOTTEN. AN OLD BROTHER, HOWEVER, TOLD THE STORY OF THE PICTURE TO A YOUNG ALTAR BOY.

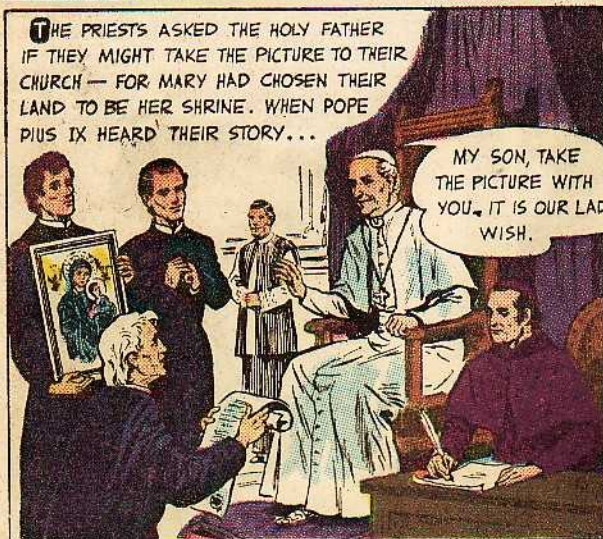
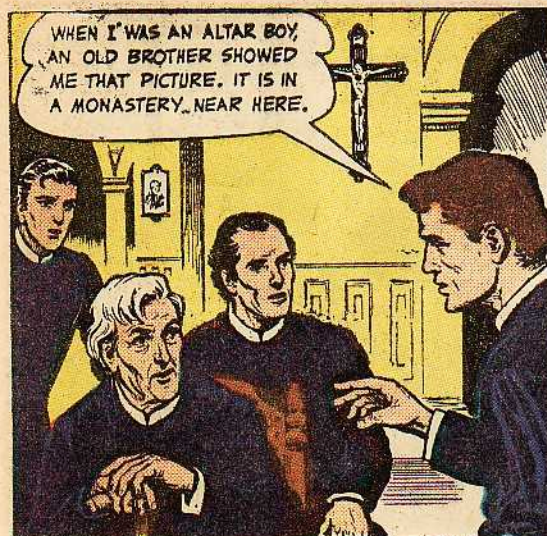
THIS IS THE MIRACULOUS PICTURE THAT WAS IN ST. MATTHEW'S CHURCH. NEVER FORGET THAT.



MANY YEARS AFTER ST. MATTHEW'S HAD BEEN DESTROYED, A NEW CHURCH WAS BUILT WHERE THE OLD ONE HAD STOOD. ONE DAY THE PRIESTS HEARD ABOUT THE PICTURE OF OUR LADY.

...AND THERE ONCE WAS A MIRACULOUS PICTURE HERE. IT HAS BEEN LOST FOR 50 YEARS.





ONCE MORE GREAT CROWDS OF PEOPLE CAME TO PRAY BEFORE THE PICTURE. TODAY DEVOTION TO OUR LADY OF PERPETUAL HELP HAS SPREAD THROUGHOUT THE WORLD. PERHAPS YOU HAVE SEEN COPIES OF THIS MIRACULOUS PICTURE IN YOUR HOME, SCHOOL, OR CHURCH.

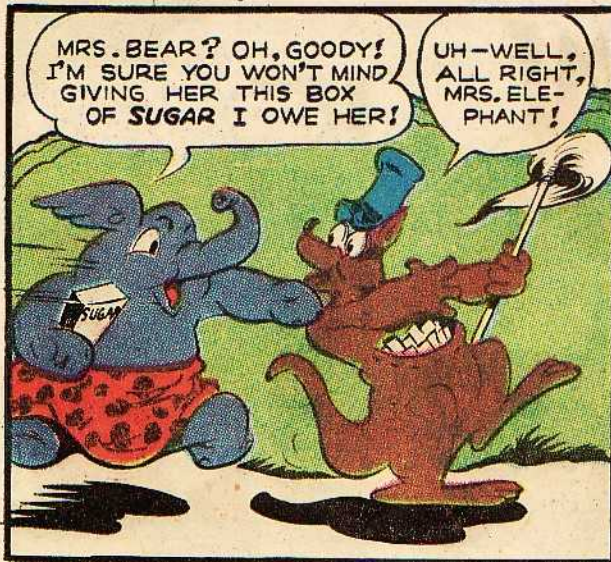
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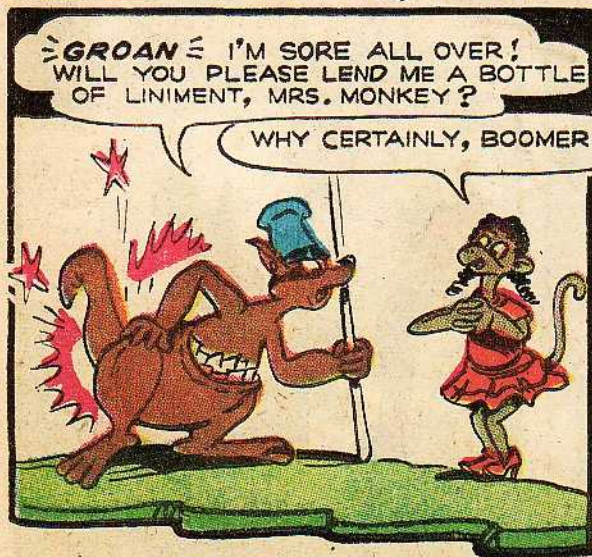
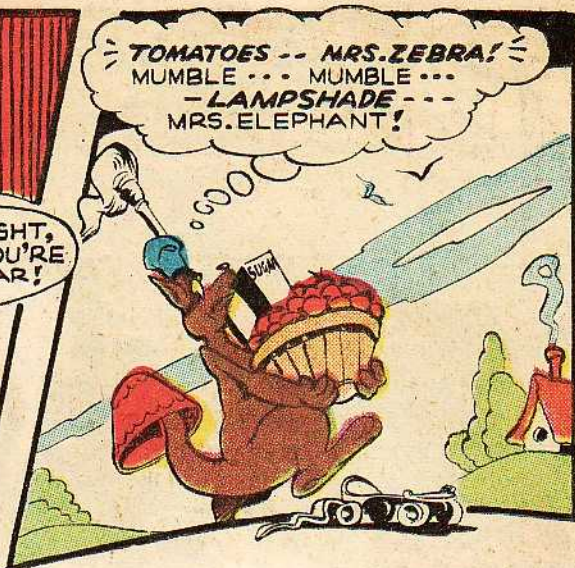


Mother of Christ! hear thou thy people's cry,
 Star of the deep, and Portal of the sky!
 Mother of Him Who thee from nothing made,
 Sinking we strive, and call to thee for aid:
 Oh, by that joy which Gabriel brought to thee,
 Thou Virgin first and last, let us thy mercy see.

Boomer

by burton geller





The Song of Roland

News of the army traveled faster than the army. When the Basques learned that Charlemagne and his men were traveling through their country, they decided to take revenge because Charlemagne had once burned one of their towns. Near the village of Ronçevaux in the Pyrenees, the Basques attacked the rear guard of Charlemagne's army and destroyed it. Among those killed was Roland, a duke. It was not a serious defeat for Charlemagne.

For some reason, this small affair caught the imagination of many poets. One of these poets (his name is unknown) wrote the *Chanson de Roland*—the Song of Roland—toward the end of the eleventh century, about the time of the First

Crusade. The story that follows is a retelling of part of the Song of Roland poem.

Though the poem is based on something that really happened, there is not a word of truth in it. You, who have the facts in our first paragraph, can see in the retelling what the storytellers and author have done to the facts.

Nevertheless, the Song of Roland is a great poem, a great story. The people in it are all more heroic, more knightly, more villainous—yet they are torn by the human emotions of greed and pride and hatred. It is almost like life, not just like life. It is fiction, yet it is as fresh and interesting today as it was when it was first told, nearly a thousand years ago.

Once Upon a Time...

... the emperor Charlemagne called a meeting of his lords. "Barons," he said, "the king of the Saracens, Marsilion, asks for peace. He asks that I give up war against him, and return to France. He offers great treasure."

"Never trust Marsilion!" shouted Count Roland. "After I took Seville, remember, he asked for peace—and then killed the noblemen we sent to treat with him!"

Ganelon, stepfather of Roland, stepped forward: "After Roland took Seville! He forgets us others who fought beside him—but this Roland boasts too much! Pay no attention to him, or to me, either. Instead, think only of the welfare of yourself and of France. This has been a costly war; the Paynim offers honorable peace. Accept the offer."

Murmurs of agreement arose from the French nobles, weary of war after seven years in Spain. But Roland cried, "Death, I say, to all Saracens! And who are you, to speak of honor, O my stepfather!"

There was no love between these two, only **hatred**.



Nevertheless, Charlemagne heeded Ganelon and the nobles. "Who," he asked, "will be my ambassador to King Marsilion in Saragossa? It may well be a very dangerous errand."

"Why, send our peace-loving Ganelon," said Roland. "He can be spared, and easily." And the French shouted their agreement.

"So be it," said Charlemagne. "Ganelon shall—"

In a fury, Ganelon roared out, "You know what ill will Roland bears me! And yet—"

"Dear Stepfather," said Roland. "This is an honor. If my emperor would give me leave, I'd gladly go in your place."

"You will not!" Ganelon shouted. "I have been commanded; I will obey. But hear this, Roland, my beloved stepson, and Oliver and all you peers of France: I'll find a deadly trick to play upon you!"

"Silence!" said Charlemagne. "Here is my glove and here my wand, tokens of your authority to speak with Marsilion. Now go."

Seething, Ganelon traveled to Saragossa in company with the Paynim emissary, Blancandrin. Blancandrin listened carefully to all that Ganelon said on the way.

Ganelon, upon being admitted to the presence of Marsilion, king of the Paynim, spoke as Charlemagne had directed him.

"Sire!" said Blancandrin quickly. "Might I have a private word with you?" He came close to Marsilion. "This Frenchman," he whispered, "has no love for his people. Treat him well, and he will serve our ends." And Marsilion put a smile on his face for Ganelon.

"They tell me," said Marsilion, "that Charlemagne is two hundred years of age. Now, about this old and fumbling king—"

"He is no dotard," Ganelon broke in, "though he has indeed lived two full centuries. Though his beard is silvery with age, Charlemagne remains a fighter still. But even mighty Charlemagne grows weary of war. Of himself, he would willingly leave off the siege of Saragossa, and go back to France. Roland, though, and Oliver and the Twelve Peers urge him on to war; they are his shield, his armor. If something were to happen to that shield, to Roland..."

"Then Charlemagne might lose heart?" said Marsilion. "He might leave off this war..." Ganelon answered with a nod. "Good!" said Marsilion. "Let us talk further of this."

And at last Ganelon came to an agreement



with Marsilion. Marsilion would send rich tribute to Charlemagne. He would promise to accept the Christian faith at Aix, with twenty noble Paynim and the keys to the city gates of Saragossa as surety for his promise. Great Charlemagne would then march back to France. Ganelon, for his part, would see to it that Roland would be in the rear guard, with Oliver and the Twelve Peers.

When this small rear guard, detached from the main Frankish army, marched through the Sizer Pass on the Spanish frontier—well, a hundred thousand Paynim would fall upon them. That would be the end of the war; disheartened, Charlemagne would abandon his siege.

Ganelon hastened back to Charlemagne with the twenty hostages, and he easily got Roland and the Peers designated as rear guard.

"A revenge of petty spite," said Roland, "quite worthy of my esteemed stepfather. That I should follow, and not lead! But I will do my duty as ordered."

The army of Charlemagne marched off to France. Many leagues behind, marched the rear guard toward the Sizer Pass, toward the village of Roncevaux—where the Paynim waited, in ambush.

Oliver spied them first. "Roland!" he cried. "Look how they come! Sound Oliphant, your ivory horn; call Charlemagne!"

"And show myself fearful?" Roland answered. "Never!"

So furiously the French fought that they beat back the hundred thousand, hewing them down, trampling the Paynim beneath their mailed boots.



But the French losses were terrible; of the Twelve Peers, all were killed; of the twenty thousand, only a handful were left. Nevertheless, victory was in sight, for the Paynim losses were greater.

Only, now came another hundred thousand, led by Marsilion himself! "We are dead men," said Roland. "Killed by Ganelon's treachery. I will sound Oliphant now, and call back Charlemagne."

"I told you to before," said Oliver bitterly, "but pride held you back. Only you and I remain of all the fighting lords of France; it would be true cowardice now to call for help." They quarreled, these faithful friends, but in the end Roland sounded Oliphant.

Thirty leagues away, Charlemagne heard the horn. "Hark!" said Charlemagne. "There is fighting!"

"Nonsense!" said Ganelon. "Roland is only showing off."

Again they heard the horn, but fainter, as if he who blew it were weak and reeling. "The wind has changed," said Ganelon. "It blows the sound away from us."

Sorely wounded, Roland blew one last blast. Blood trickled from his mouth: the blast could scarcely be heard. But the emperor heard, and he ordered his army to wheel about and charge back to Roncevaux.

Meanwhile, Oliver had been struck down. Roland ran to him, but Oliver—blind with pain—struck him a mighty blow on the head. "My comrade!" cried Roland. "Are you still so angry with me? I mean no harm to you. Did you mean harm to me?"

"I cannot see!" Oliver moaned, weeping. "Your pardon, Roland. Your pardon—" And he died.

Then, himself dying, yet still fighting off the Paynim, Roland climbed a small hillock. There,

with his face toward Spain, he beat with his sword, Durendal, against a rock, trying to break the sword so that it might not fall into Paynim hands. And there he died, on the hillock.



Ganelon had his revenge, but small good it did him. He was tried for treason by Charlemagne, and killed. As for Charlemagne, he never ceased grieving for Roland and the noble barons who had died at Roncevaux. He would sit long hours, plucking at his silvery beard. "How weary," he would say. "How weary, weary has my life become!"

Curious EXPRESSIONS

...their meanings
and origins.

TO BRING HOME THE BACON..

A BASEBALL TEAM "BRINGS HOME THE BACON" WHEN THEY WIN — MEANING THEY COME BACK WITH VICTORY. THIS SAYING PROBABLY ORIGINATED IN DUNMOW, ENGLAND, WHERE IT'S BEEN THE CUSTOM SINCE THE TWELFTH CENTURY TO AWARD A SIDE OF BACON TO THE YEAR'S MOST HAPPILY MARRIED COUPLE THE WINNERS THEN "CAME HOME WITH THE BACON".



THE HOME
OFFICE MUST HAVE
SLIPPED UP
AGAIN!



TO CARRY COALS

NEWCASTLE, ENGLAND
GREATEST COAL MINING
COAL TO NEWCASTLE" W
PLENTY OF IT, MEANS TO
USELESS.

BEFORE YOU JACK ROBIN

WHEN
HAPPEN
CAN
ROBINS
VERY
EXPRES
ATED
WHERE
"JACK RO
COMMON
TO SAY



Curious EXPRESSIONS

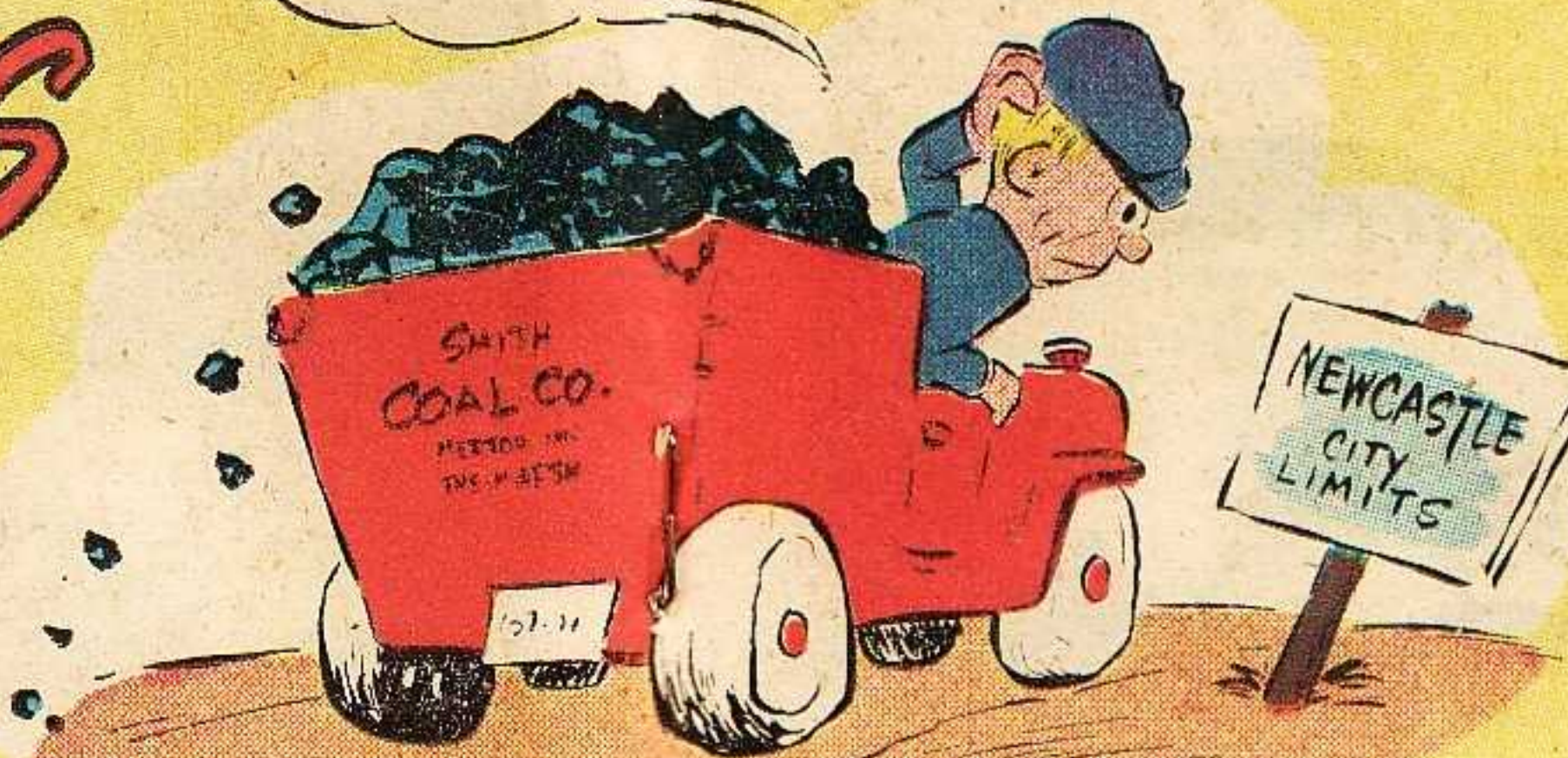
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THE HOME OFFICE MUST HAVE SLIPPED UP AGAIN!



TO CARRY COALS TO NEWCASTLE...

NEWCASTLE, ENGLAND, IS ONE OF THE WORLD'S GREATEST COAL MINING CENTERS. "TO CARRY COAL TO NEWCASTLE" WHERE THERE IS ALREADY PLENTY OF IT, MEANS TO DO SOMETHING QUITE USELESS.

BEFORE YOU CAN SAY JACK ROBINSON...

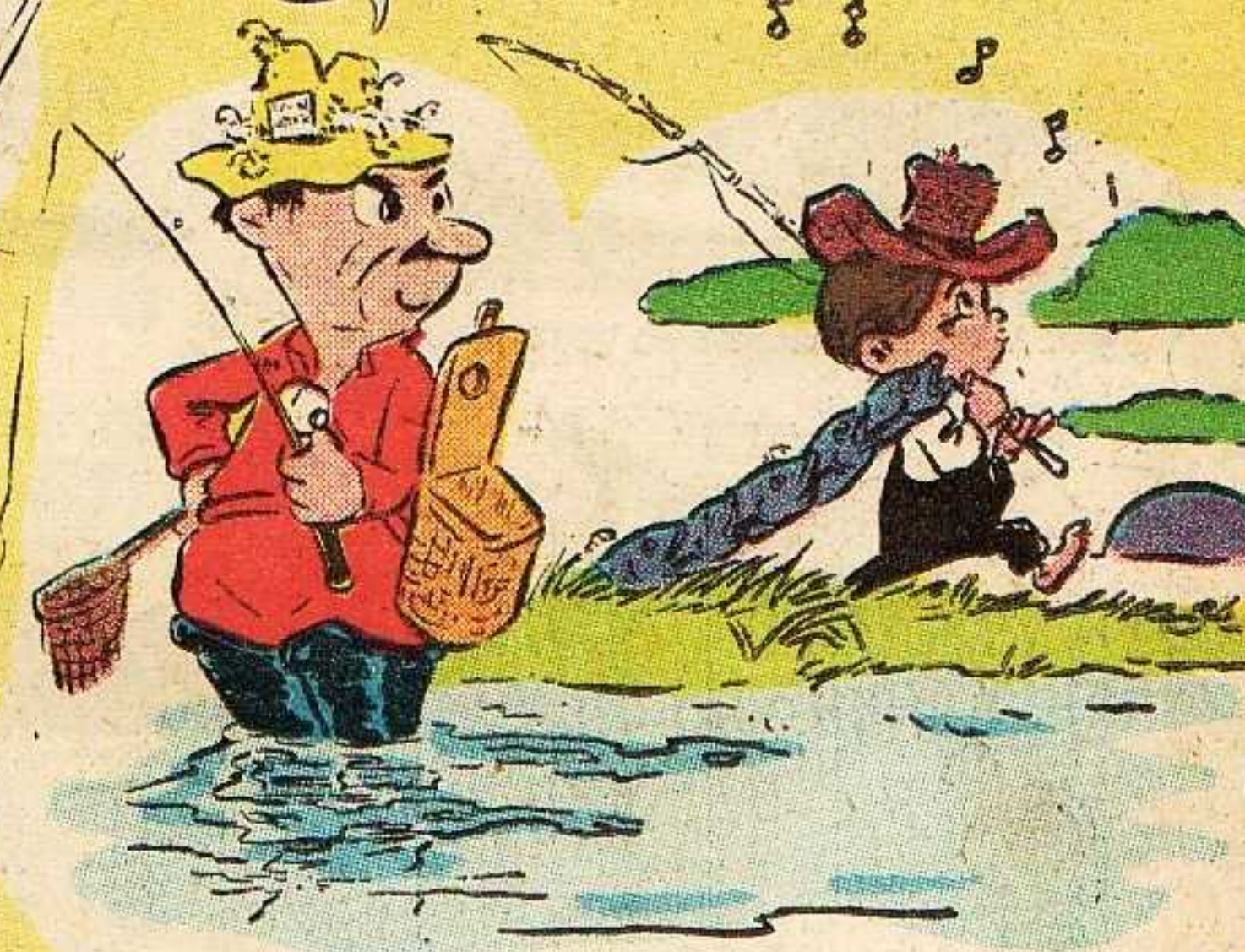
WHEN SOMETHING HAPPENS "BEFORE YOU CAN SAY 'JACK ROBINSON'" IT HAPPENS VERY FAST. THIS EXPRESSION ORIGINATED IN ENGLAND WHERE THE NAME "JACK ROBINSON" IS COMMON AND EASY TO SAY.



ACCORDING TO HOYLE.....

TO DO SOMETHING "ACCORDING TO HOYLE" IS TO DO IT THE ACCEPTED WAY. EDWARD HOYLE WROTE A RULE BOOK ON EIGHTEENTH CENTURY GAMES. HIS BOOK WAS QUOTED SO OFTEN OVER DISCUSSIONS ABOUT THE GAMES THAT THE EXPRESSION "ACCORDING TO HOYLE" CAME TO MEAN THE FINAL AUTHORITY ON EVERYTHING.

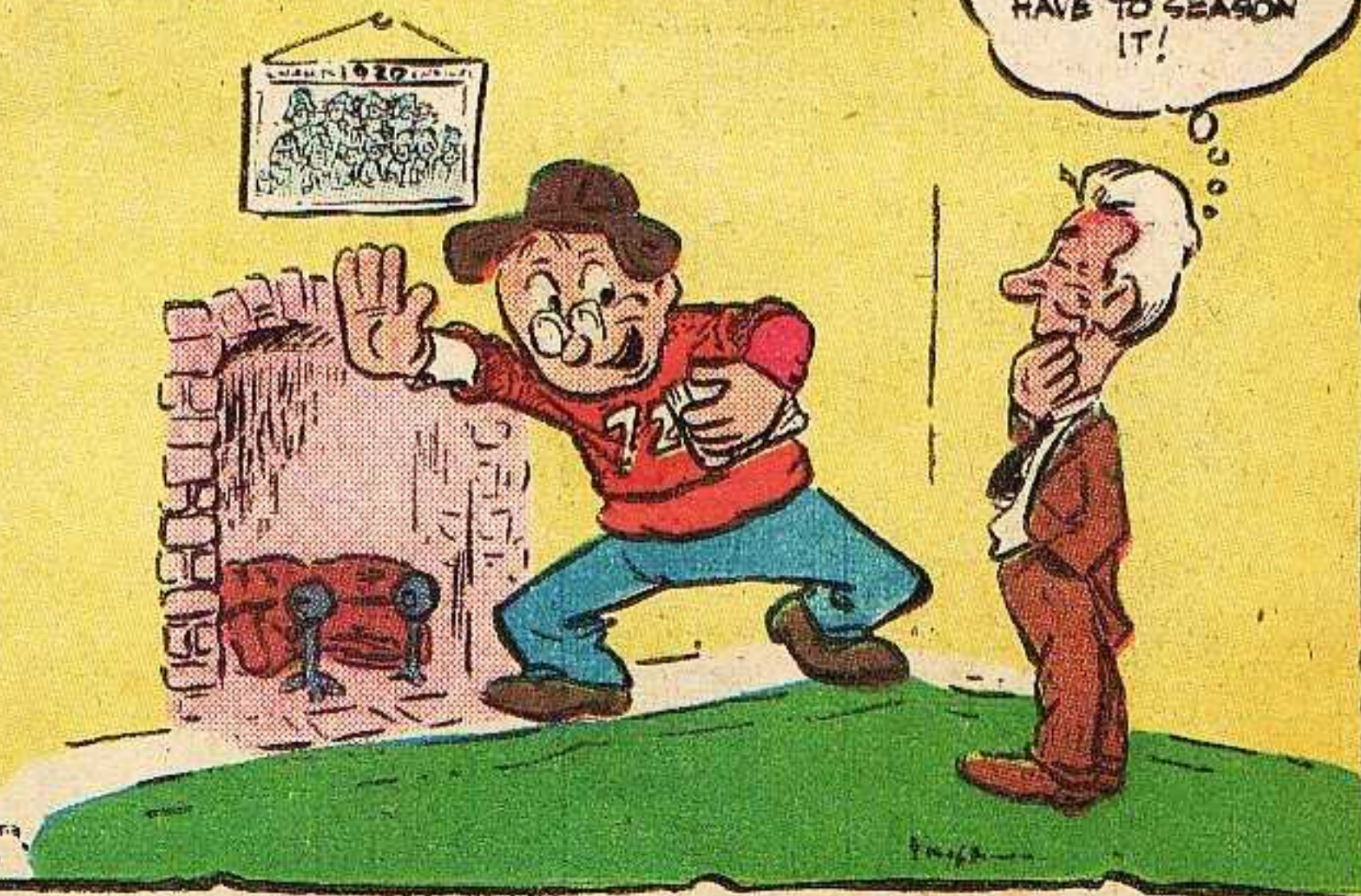
WAIT'LL HOYLE HEARS ABOUT THIS!



GRAIN OF SALT.....

WHEN YOU TAKE SOMETHING WITH "A GRAIN OF SALT" YOU'RE SHOWING SUSPICION AND DISTRUST ABOUT IT. IT'S THE EXACT TRANSLATION OF THE LATIN "CUM GRANO SALIS". IN THOSE OLD DAYS A PINCH OF SALT WAS THOUGHT TO HELP COUNTERACT POISON.

BEFORE I CAN SWALLOW THAT I'LL REALLY HAVE TO SEASON IT!



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TO NEWCASTLE ...
... IS ONE OF THE WORLD'S
CENTERS ... TO CARRY
WHERE THERE IS ALREADY
DO SOMETHING QUITE



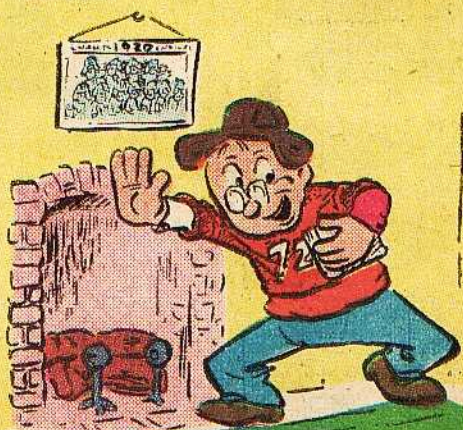
CAN SAY N SON...

SOMETHING
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ROBINSON' IS
IN AND EASY
Y.



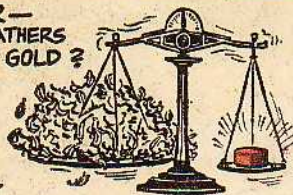
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What's the Answer?

- 1 WHICH IS HEAVIER —
A POUND OF FEATHERS
OR A POUND OF GOLD?



- 2 IT IS SAID THAT
LIGHTNING NEVER STRIKES
TWICE IN THE SAME PLACE...
IS THIS TRUE?



- 3 CAN A MAN ON A BICYCLE GO 75 MILES AN HOUR?



- 4 THERE IS A PLACE IN OUR COUNTRY WHERE
YOU CAN BE IN FOUR
STATES AT THE SAME
TIME. HOW CAN THIS
BE? AND WHICH ARE
THE FOUR STATES?



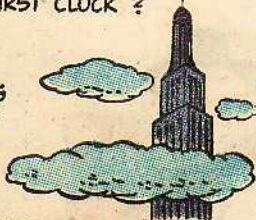
- 5 WHO IS THE PATRON SAINT
OF OUR COUNTRY?

- 6 WHICH IS THE
LARGEST CHURCH
IN THE WORLD?



- 7 WHO MADE THE FIRST CLOCK?

- 8 WHICH IS THE
TALLEST BUILDING
IN THE WORLD?

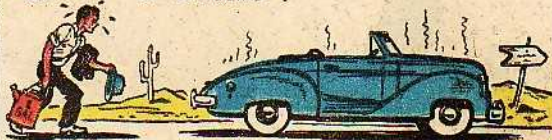


- 9 ST. PETER WAS THE FIRST POPE.
WHO WAS THE SECOND?

- 10 HOW COLD DOES IT HAVE TO GET FOR
WATER TO TURN
INTO ICE.



- 11 HOW FAR CAN AN AUTO GO ON A GALLON
OF GASOLINE?



- 12 WHICH IS THE HIGHEST MOUNTAIN IN OUR
COUNTRY?



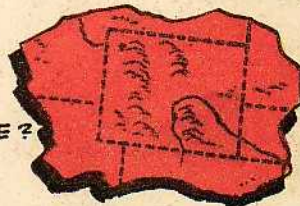
- 13 WHICH IS THE HIGHEST MOUNTAIN IN THE WORLD?

- 14 ARE THERE VOLCANOES IN OUR COUNTRY?



- 15 WHERE ARE THE HIGHEST TIDES IN THE WORLD?

- 16 WHAT IS THE
NAME OF
THE STATE
THAT IS
ALMOST SQUARE?



- 17 CAN AN AIRPLANE WITHOUT A MOTOR
STAY UP IN
THE AIR?



- 18 WHOSE PICTURE IS ON A PENNY?
A NICKEL? A DIME?



- 19 WHOSE PICTURE IS ON A THREE-CENT STAMP?
A ONE-CENT STAMP?



(ANSWERS... INSIDE BACK COVER)

Clifford

TERRY
BRENNAN'S

DO IT
YOURSELF

ONE OF THE MOST EXCITING THRILLS IN VIEWING AMERICA'S GREATEST GAME IS TO SEE GOOD BASE RUNNING. IT TAKES A LOT OF KNOW-HOW AND PRACTICE. BUT IT CAN BREAK A GAME WIDE OPEN.

HE'S SAFE!

WHAT A RALLY
THOSE YANKS ARE
PUTTING ON!

YIPPEE!!

ALL THE WAY
FROM FIRST TO THIRD
ON A BUNT! THAT'S
REAL RUNNING!

BOX
EATS

HE MUST BE THE
FASTEST MAN ON
THE FIELD!

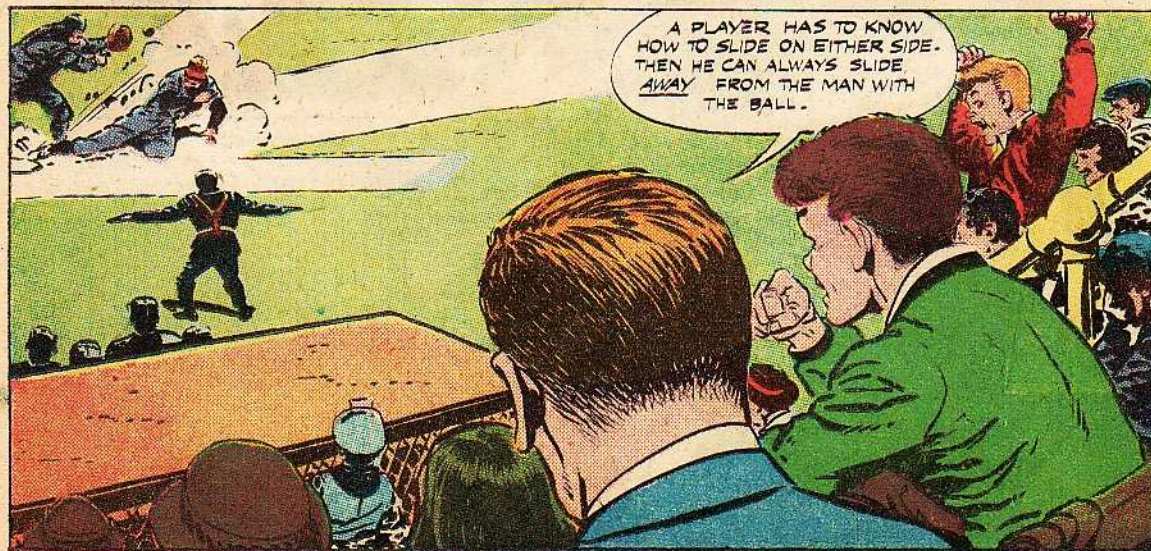
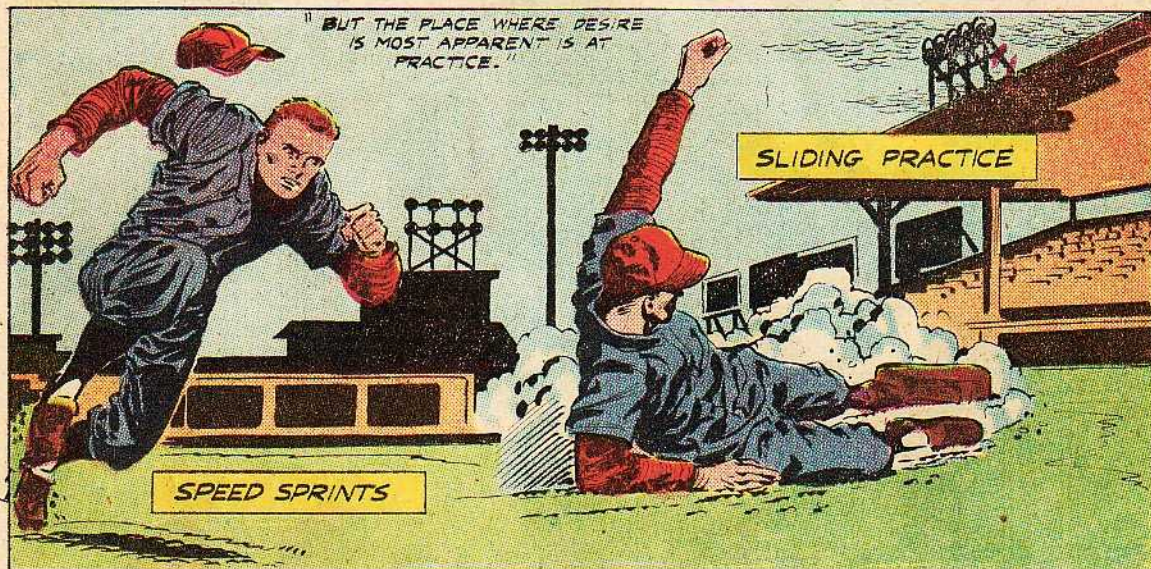
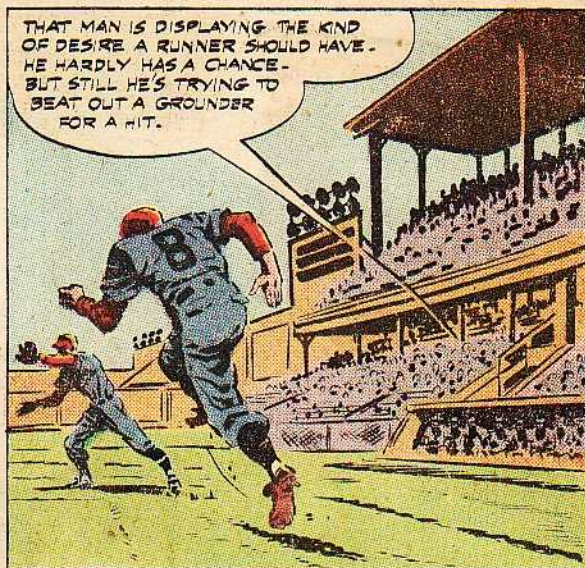
AS A MATTER OF FACT,
BILLY, HE'S NOT REALLY
EXCEPTIONALLY FAST AT ALL.
BUT HE KNOWS ALL THE TRICKS.
AND THAT'S WHAT IS MOST
IMPORTANT IN RUNNING
THE BASES.

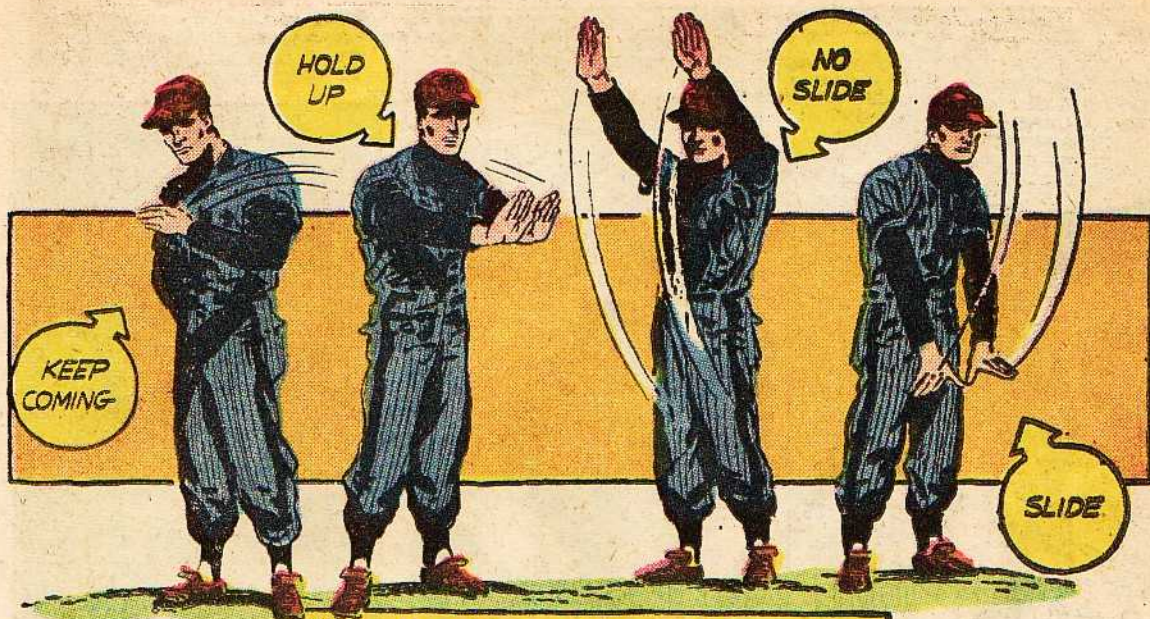
"A GOOD RUNNER STUDIES THE PLAYERS
ON THE OPPOSING TEAMS VERY CLOSELY,
PARTICULARLY THE PITCHERS..."

HE MOVES HIS LEFT FOOT.
JUST BEFORE
HE THROWS
TO FIRST.



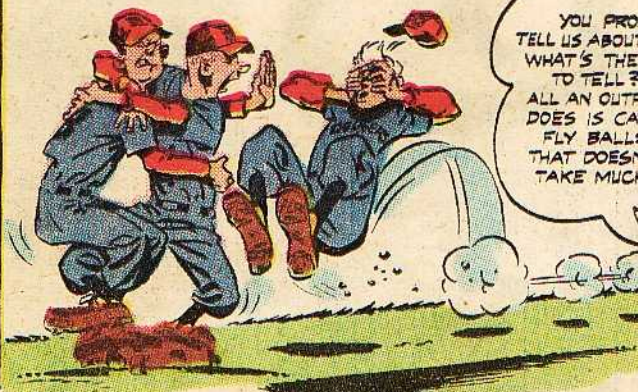
... AND THE KNOWLEDGE THE RUNNER GAINS FROM SUCH STUDY HELPS HIM TO GET THE JUMP ON THE PITCHER FOR A STEAL."





"HE ALSO MUST KNOW AND OBEY THE SIGNALS OF THE FIRST- AND THIRD-BASE COACHES."

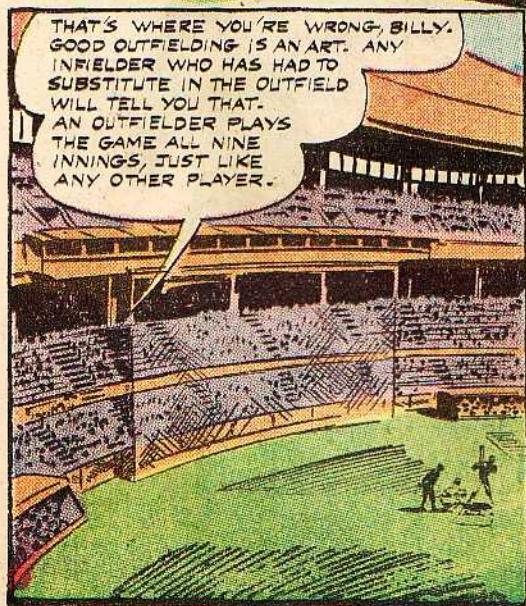
"IF HE DOESN'T, IT'S POSSIBLE TO END UP WITH THREE RUNNERS ON THE SAME BASE. AND THAT VERY THING HAS HAPPENED IN THE MAJOR LEAGUES."



YOU PROMISED TO TELL US ABOUT OUTFIELDING. WHAT'S THERE TO TELL? ALL AN OUTFIELDER DOES IS CATCH FLY BALLS. THAT DOESN'T TAKE MUCH.

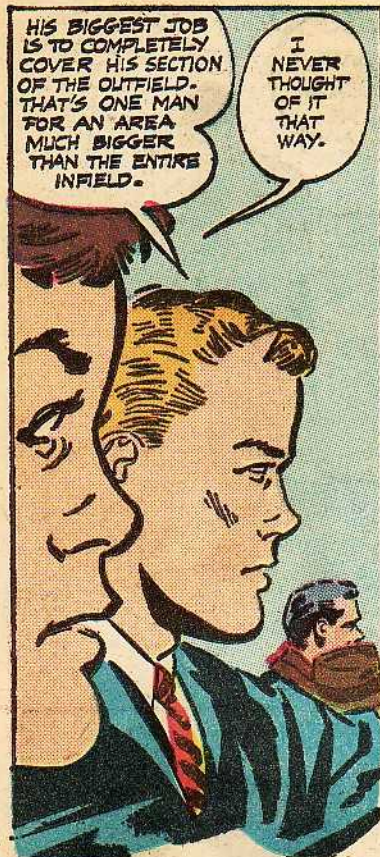


THAT'S WHERE YOU'RE WRONG, BILLY. GOOD OUTFIELDING IS AN ART. ANY INFIELDER WHO HAS HAD TO SUBSTITUTE IN THE OUTFIELD WILL TELL YOU THAT. AN OUTFIELDER PLAYS THE GAME ALL NINE INNINGS, JUST LIKE ANY OTHER PLAYER.



"CATCHING A FLY BALL IS THE MOST OBVIOUS PART OF HIS WORK, BUT ONLY A PART."





"BECAUSE OF ALL THAT ROOM OUT THERE, AN OUTFIELDER HAS TO KNOW HIS BATTERS -- WHERE THEY ARE MOST LIKELY TO HIT THE BALL."



"HE MUST ALSO 'COVER' HIS FELLOW OUTFIELDERS ON EVERY BALL HIT TO THE OUTFIELD. IF HIS BUDDY MISSES HE IS RIGHT BEHIND HIM."



"HE MUST ALSO DO THE SAME THING FOR HIS INFELDERS."



WELL, YOU'VE CONVINCED ME THAT THEY WORK HARDER THAN I REALIZED, BUT...

BUT YOU STILL THINK INFELDERS WORK HARDER AND NEED MORE TALENT. MAYBE SO...



"...BUT CONSIDER THIS: IF AN OUTFIELDER DROPS A BALL, HE HAS NO CHANCE TO PICK IT UP AND THROW THE RUNNER OUT, AS AN INFELDER WOULD DO."



"CONSIDER THAT THE OUT-FIELDER IS ALSO EXPECTED TO BE ONE OF THE TOP HITTERS ON THE CLUB..."

"THAT HE MUST HAVE THE STRONGEST THROWING ARM ON THE TEAM, AND HE MUST BE ACCURATE."



WELL, BILLY, AN OUTFIELDER SHOULD KEEP TRACK OF WIND CURRENTS BECAUSE THEY AFFECT THE FLIGHT OF THE BALL. HE SHOULD ALSO BE WELL AWARE OF THE CONDITION OF THE GROUND. IT AFFECTS BOTH HIS RUNNING AND THE WAY A BALL WILL BOUNCE.

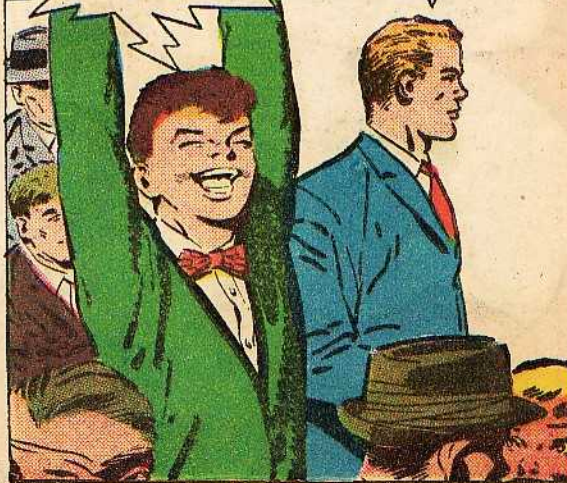


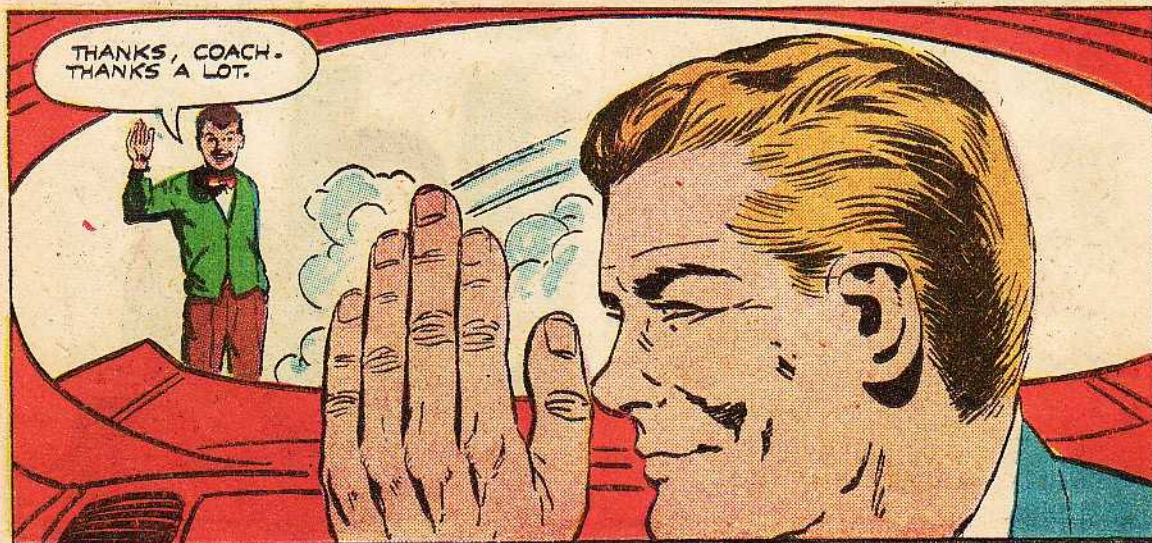
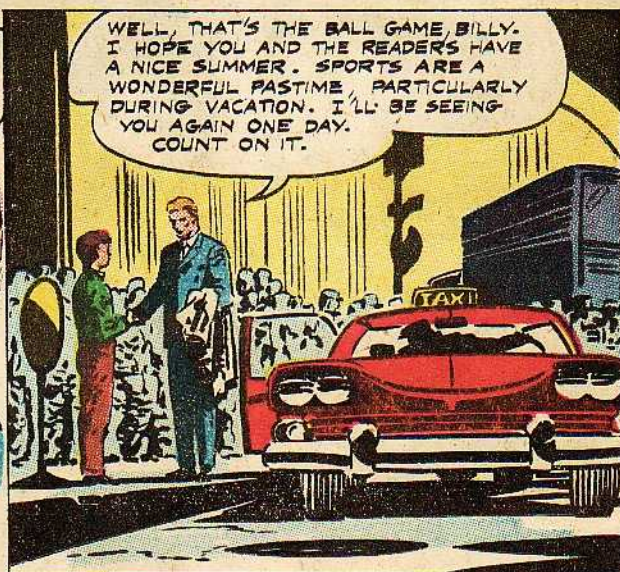
"HE SHOULD ALSO STUDY THE FENCES SO HE KNOWS HOW TO PLAY A BOUNCING BALL."



LATER...
**THAT'S IT!
THE YANKS
WIN!** WHAT A CATCH!

THAT OUTFIELDER REALLY GOT THE JUMP ON THAT BALL.

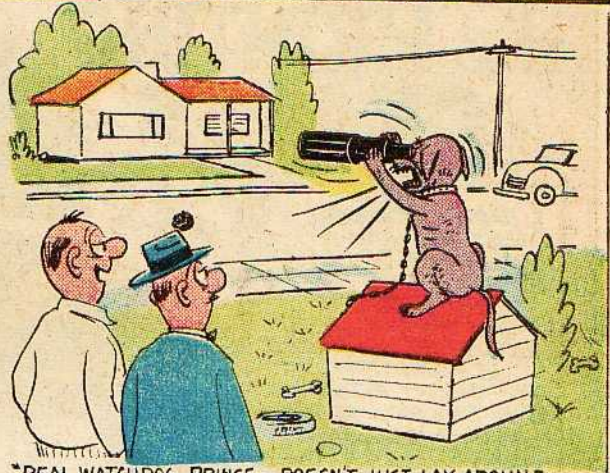




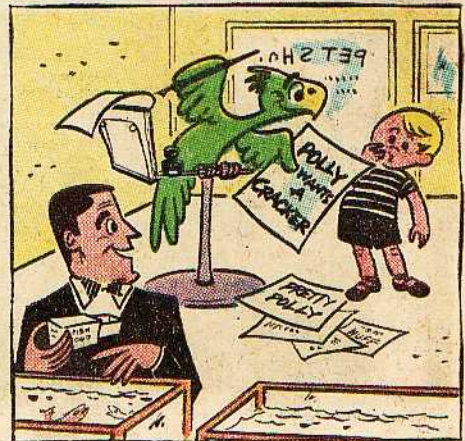
FUN PAGE!



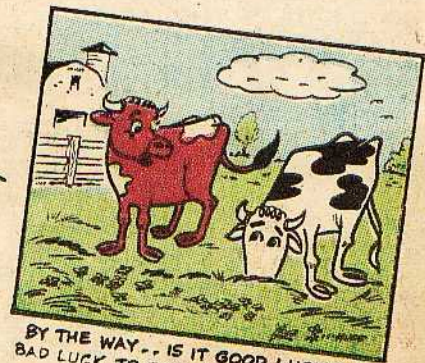
OH DEAR, WE'LL HAVE TO TAKE JUNIOR TO THE EYE DOCTOR.... HE SAYS HE CAN SEE IN THE DAYLIGHT!!



"REAL WATCHDOG, PRINCE - DOESN'T JUST LAY AROUND WAITING UNTIL SOMEONE WALKS INTO THE YARD."



OH, DON'T MIND HER -- SHE LOST HER VOICE YESTERDAY!!



BY THE WAY... IS IT GOOD LUCK OR BAD LUCK TO EAT 4-LEAF CLOVERS?



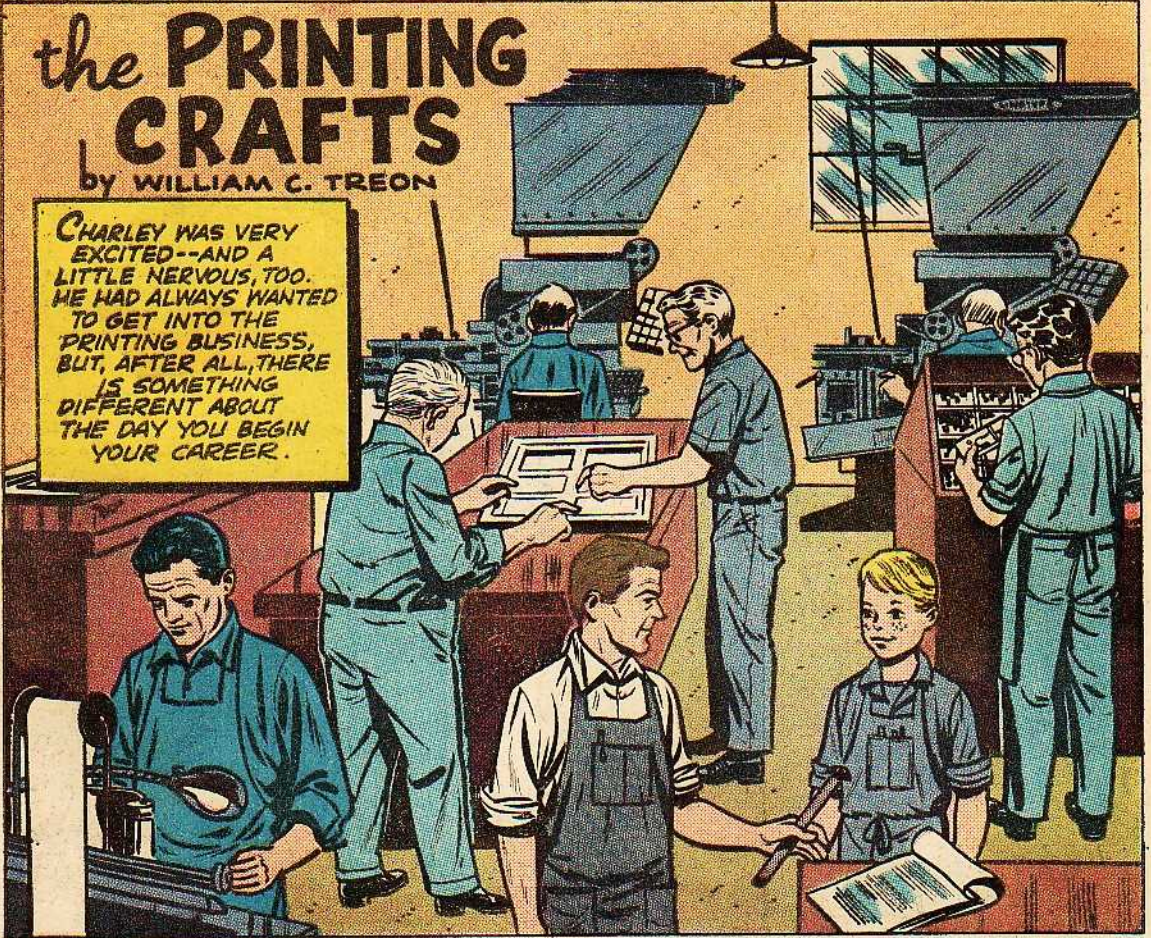
"ONE THING ABOUT THE COACH... HE SURE WHIPS THE TEAM INTO A FIGHTING MOOD!"

What can YOU do?

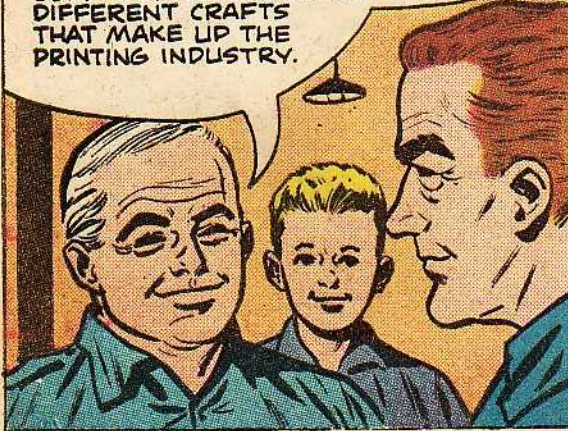
the PRINTING CRAFTS

by WILLIAM C. TREON

CHARLEY WAS VERY EXCITED--AND A LITTLE NERVOUS, TOO. HE HAD ALWAYS WANTED TO GET INTO THE PRINTING BUSINESS, BUT, AFTER ALL, THERE IS SOMETHING DIFFERENT ABOUT THE DAY YOU BEGIN YOUR CAREER.



MR. ANDREWS, YOUR NEW APPRENTICE HERE WILL BE IN YOUR CARE UNTIL HE FINISHES HIS APPRENTICESHIP TRAINING. I KNOW YOU CAN GIVE HIM A GOOD IDEA OF THE MANY DIFFERENT CRAFTS THAT MAKE UP THE PRINTING INDUSTRY.



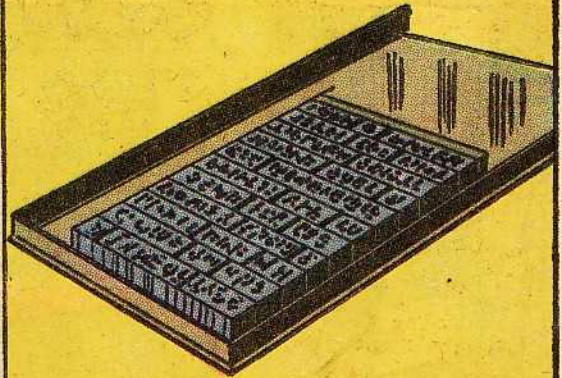
WELL, LET'S BEGIN WHERE GUTENBERG BEGAN IN 1410. MANY PEOPLE SAY HE WAS THE FIRST TO PRINT FROM MOVABLE TYPE THAT COULD BE SET UP BY HAND AND USED FOR DIFFERENT JOBS. A MAN WHO DOES THIS TODAY IS CALLED A HAND COMPOSITOR.



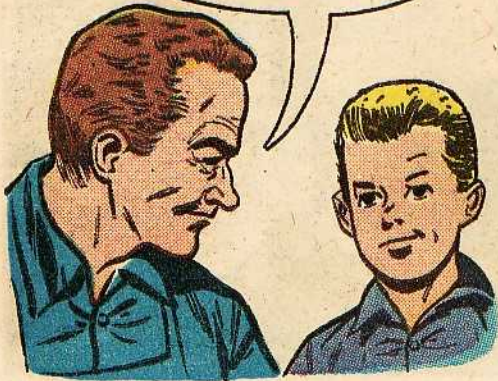
"A HAND COMPOSITOR MAKES USE OF A 'COMPOSING STICK', WHICH MERELY HOLDS LINES OF TYPE IN PLACE. THE PAPER CONTAINING THE TYPED OR HANDWRITTEN MATTER TO BE SET UP IN TYPE IS CALLED A MANUSCRIPT COPY."



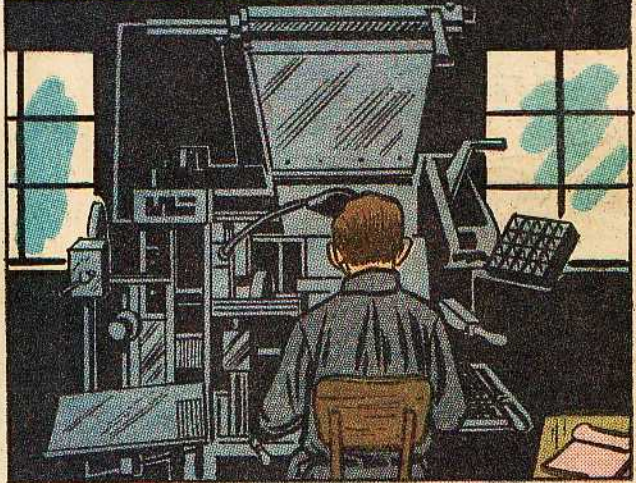
"WHEN THE COMPOSING STICK IS FULL, THE TYPE IS PLACED IN A METAL TRAY, CALLED A 'GALLEY'. LATER THESE LINES OF TYPE ARE USED IN THE ACTUAL PRINTING PROCESS."



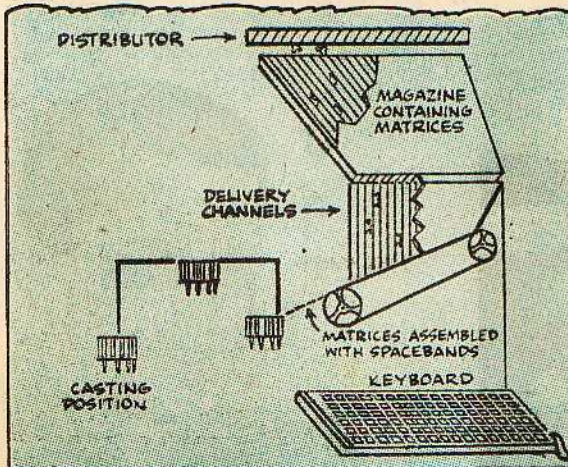
ANOTHER COMPOSING-ROOM OCCUPATION IS THAT OF LINOTYPE OPERATOR. THESE MEN SET UP TYPE BY USE OF MACHINES, RATHER THAN BY HAND.



"SETTING TYPE BY LINOTYPE IS FASTER THAN SETTING IT BY HAND."



"THE LINOTYPE KEYBOARD IS SIMILAR TO THAT OF A TYPEWRITER, BUT HAS ABOUT TWICE AS MANY KEYS. THE OPERATOR SETS TYPE BY PUSHING DOWN THE PROPER KEYS ON THE KEYBOARD."



AS THE LINOTYPE OPERATOR PUSHES DOWN THE KEYS, THE MACHINE SELECTS THE PROPER METAL MOLDS, WHICH CONTAIN LETTERS, AND FORMS THEM INTO WORDS IN A LINE.

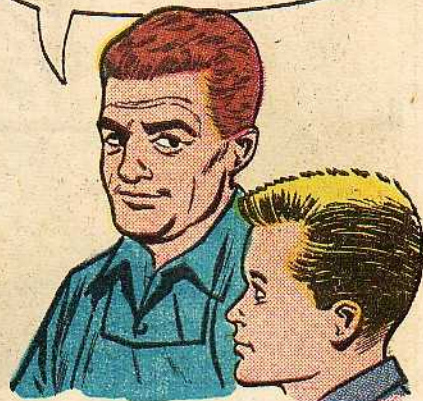
I SEE. BUT HOW IS THE TYPE MADE READY FOR ACTUAL PRINTING?



"AFTER THE OPERATOR HAS COMPLETED A LINE OF TYPE, HE PULLS A LEVER. MELTED METAL FLOWS INTO THE MOLDS AND BECOMES A SOLID STRIP OF METAL WITH RAISED LETTERS. THIS IS CALLED A 'SLUG'."



THESE SLUGS ARE PLACED ON A GALLEY, THE SAME AS HAND-COMPOSED TYPE IS. THIS WILL LATER BE ASSEMBLED FOR PRINTING OR FOR THE MAKING OF DUPLICATE PLATES.

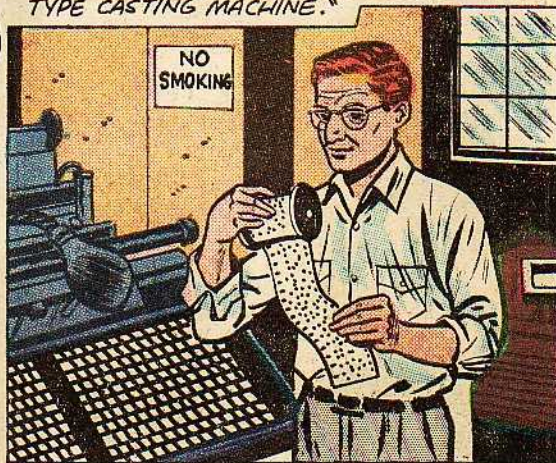


THE MONOTYPE IS ANOTHER KIND OF TYPESETTING DEVICE. IT ACTUALLY IS TWO MACHINES -- A KEYBOARD AND A TYPE-CASTER. THE KEYBOARD HAS UP TO SEVEN SETS OF ALPHABETS ARRANGED VERY MUCH LIKE THAT OF A TYPEWRITER.

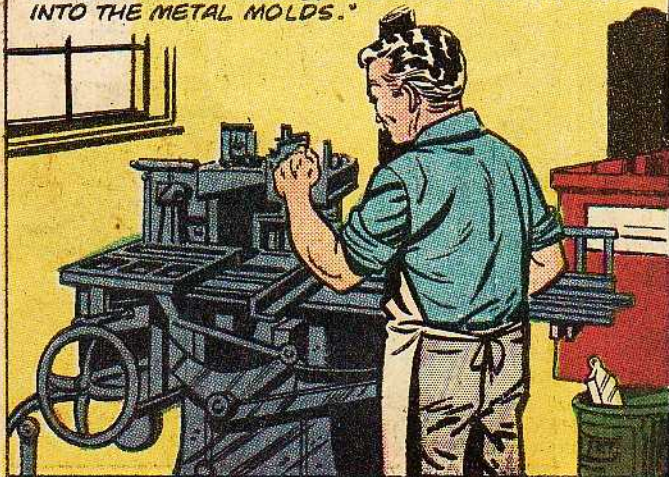
WOW! YOU'D NEED A GOOD MEMORY TO KEEP TRACK OF THAT MANY KEYS!



"THE MONOTYPE KEYBOARD DOES NOT MAKE LINES OF TYPE ITSELF. INSTEAD, IT PRODUCES VERY SMALL HOLES ON A PAPER ROLL. THIS IS LATER FED INTO WHAT IS CALLED A MONO-TYPE CASTING MACHINE."



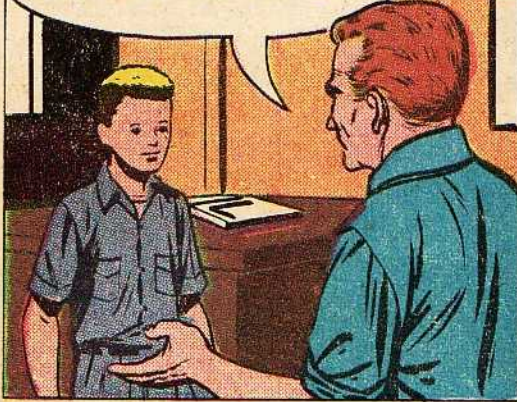
"WHEN THE PAPER ROLL IS FED INTO THE CASTING MACHINE, EACH SMALL HOLE AUTOMATICALLY SELECTS A METAL MOLD. MELTED METAL IS THEN FORCED INTO THE METAL MOLDS."



THESE MACHINES ARE OPERATED BY MONOTYPE CASTER OPERATORS. THEIR PRINCIPAL DUTIES ARE TO SET UP THE MACHINE, TEND IT WHILE IT IS OPERATING, AND DO NECESSARY REPAIR WORK ON IT.



THOSE ARE THE ONLY OCCUPATIONS CONNECTED WITH THE PRINTING INDUSTRY THAT GO ON IN THIS SHOP, BUT THERE ARE MANY OTHERS. I'LL DO MY BEST TO OUTLINE THEM FOR YOU.



PRINTING INVOLVES MORE THAN JUST SETTING UP TYPE. IT IS ALSO NECESSARY TO PRINT PHOTOGRAPHS AND ART WORK OF DIFFERENT KINDS. THE MAN WHO MAKES PRINTING PLATES FOR THIS KIND OF MATERIAL IS CALLED A PHOTOENGRAVER.



"THE PRINTING SURFACE OF THE DRAWING OR PHOTO STAND OUT ABOVE THE NON-PRINTING SURFACE, THE WAY LETTERS DO WHEN REGULAR TYPE IS USED."



"NOT ALL PHOTOENGRAVING IS DONE THIS WAY. THERE IS ANOTHER PROCESS WHICH IS EXACTLY THE OPPOSITE -- THE NON-PRINTING SURFACE IS RAISED, AND THE IMAGE TO BE PRINTED IS CUT INTO THE PLATE, BELOW THE SURFACE. MEN WHO DO THIS ARE CALLED ROTOGRAVURE PHOTOENGRAVERS."

NON-PRINTING AREA PRINTING AREA



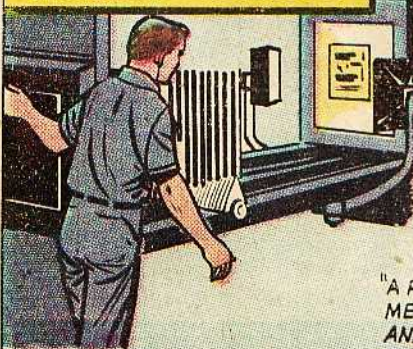
RAISED SURFACE PRINTING (LETTERPRESS)

NON-PRINTING AREA PRINTING AREA



LOWERED SURFACE PRINTING (GRAVURE)

"THERE ARE THREE MAIN STEPS IN THE PHOTO-ENGRAVING PROCESS..."

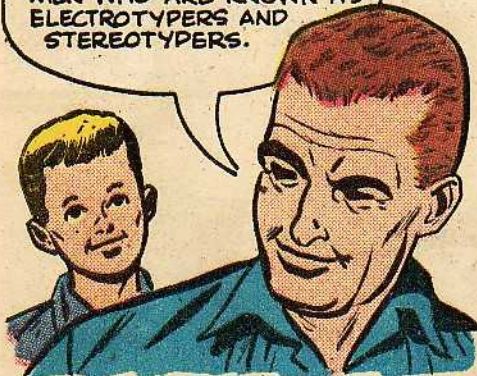


"A PICTURE IS TAKEN OF THE MATERIAL TO BE REPRODUCED."

"A PRINTER 'PRINTS' THE IMAGE ON A METAL PLATE BY THE USE OF CHEMICALS AND ARC LIGHTS. THE DESIGN OR PICTURE ON THE PLATE IS TREATED SO THAT IT RESISTS ACID. THE PLATE IS THEN PLACED IN AN ACID SOLUTION. THE ACID EATS THE UNWANTED PORTIONS AWAY AND THE PRINTING PORTION REMAINS STANDING."

"THE ENGRAVER THEN CHECKS THE PLATE AND MAKES ANY MINOR CORRECTIONS THAT ARE NECESSARY AND THE PLATE IS READY FOR USE."

OF COURSE, TYPE AND PHOTOENGRAVINGS WEAR OUT. BECAUSE OF THIS, WHEN LARGE VOLUMES OF BOOKS OR MAGAZINES ARE PRODUCED, IT IS NECESSARY THAT DUPLICATE PLATES BE MADE. THESE PLATES ARE MADE BY MEN WHO ARE KNOWN AS ELECTROTYPERS AND STEREOTYPERS.

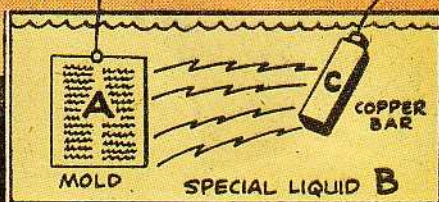


AN ELECTROTYPYER SPRAYS THE PLATE, (A), WITH A THIN SILVER SOLUTION, AND PLACES IT IN A SPECIAL LIQUID, (B). AN ELECTRIC CURRENT IS PASSED THROUGH A PIECE OF COPPER (C) IN THE SOLUTION. THE CURRENT DISSOLVES THE COPPER AND CARRIES IT TO THE PLATE (A). THE COPPER FORMS AN EXACT REPRODUCTION OF THE PLATE, RIGHT ON THE PLATE -- A METAL COATING AROUND THE PLATE.

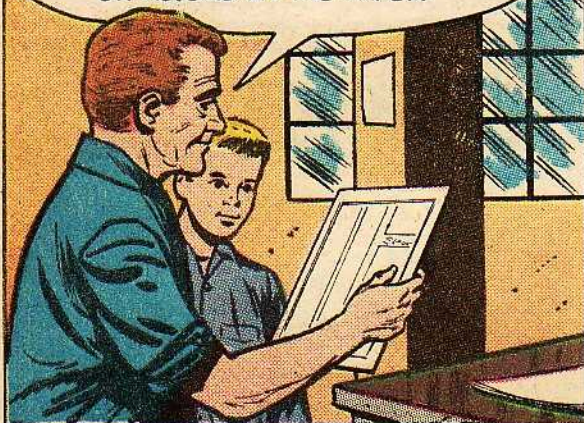


negative

positive



THE METAL COATING IS REMOVED FROM THE PLATE AND MELTED METAL IS POURED INTO IT. IT HARDENS AND BECOMES ANOTHER METAL PLATE WHICH PRINTS THE TYPE OR PICTURE ON THE PAPER.



STEREOTYPING IS ANOTHER WAY OF MAKING METAL PRINTING PLATES, BUT IT'S SIMPLER, QUICKER, AND CHEAPER. THE PLATES DON'T LAST AS LONG AS THE OTHERS.



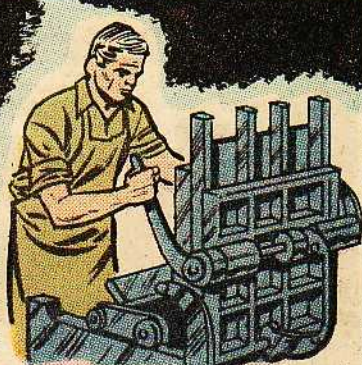
"THE STEREOTYPING PROCESS IS AS FOLLOWS..."



"A MATERIAL SOMETHING LIKE CARDBOARD, CALLED A 'MAT,' IS DAMPENED AND PLACED ON THE FORM, AND COVERED WITH A CORK BLANKET AND A SHEET OF FIBERWOOD."



"THIS IS THEN RUN UNDER HEAVY STEEL ROLLS. A REPRODUCTION OF THE TYPE AND PHOTOENGRAVING IS MADE ON THE SOFTER MAT."

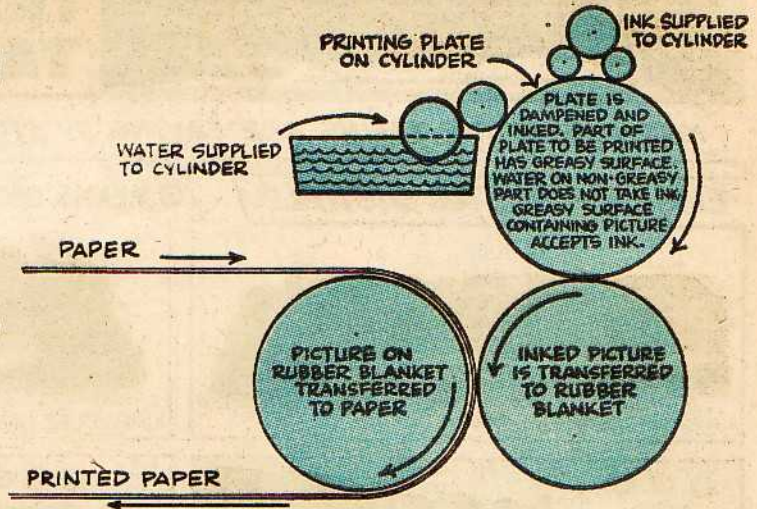


"THE MAT IS PLACED IN A STEREOTYPE CASTING MACHINE WHICH POURS MELTED LEAD UPON IT. WHEN THE LEAD HARDENS, THE FORM OR 'CAST' IS THEN USED IN THE ACTUAL PRINTING PROCESS."

FINALLY, THERE IS A PRINTING PROCESS KNOWN AS LITHOGRAPHY, OR OFFSET PRINTING. THIS PROCESS WORKS ON THE PRINCIPLE THAT GREASE AND WATER DO NOT MIX. A GREASY SUBSTANCE IS SPREAD ON THE IMAGE TO BE PRINTED, AND WATER ON THE OTHER AREAS.



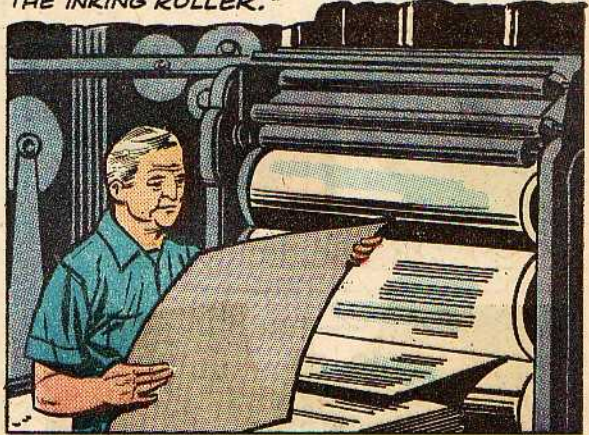
"THIS ROUGH DIAGRAM SHOWS HOW THE PICTURE IS TRANSFERRED FROM THE PLATE TO THE PRINTED PAPER."



"THE FINAL STEP IN THE PRINTING PROCESS COMES WHEN THE PLATES ARE ASSEMBLED IN THE PRESSROOM BY THE PRESSMAN. HIS BASIC DUTIES ARE TO 'MAKE READY' AND TO TEND THE PRESSES WHILE IN OPERATION."



"THE 'MAKE READY' OPERATION CONSISTS OF ADJUSTING THE PRESSES SO THAT THE PRINTING ON THE PAPER IS NEITHER TOO LIGHT NOR TOO DARK, CHECKING MARGINS ON THE PRINTED SHEET, AND REGULATING THE FLOW OF INK TO THE INKING ROLLER."



"HERE ARE THE AVERAGE HOURLY WAGES PAID FOR THE OCCUPATIONS MENTIONED."

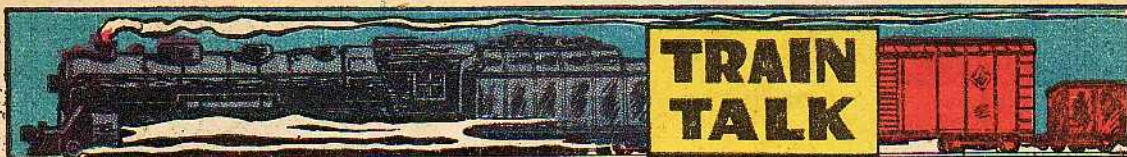
JOB	APPRENTICE WAGE *	JOURNEYMAN WAGE	APPRENTICESHIP PERIODS
LINOTYPE OPERATOR	1.22	3.26	6 YEARS
MONOTYPE OPERATOR			
PHOTOENGRAVER			
ELECTROTYPY	1.68	3.36	6 YEARS
STEREOTYPER			
PRESSMAN	1.55	4.00	5 YEARS

* APPRENTICE WAGES INCREASED 5% EVERY 6 MONTHS.

AS YOU KNOW, IN JUST ABOUT ALL OF THESE OCCUPATIONS AN APPRENTICE IS REQUIRED TO BE 18 YEARS OLD AND HAVE A HIGH SCHOOL EDUCATION.

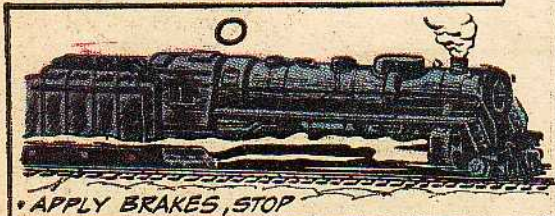
YES, SIR. BUT LET'S GET TO WORK. NOW I'M MORE ANXIOUS THAN EVER TO LEARN THE BUSINESS!



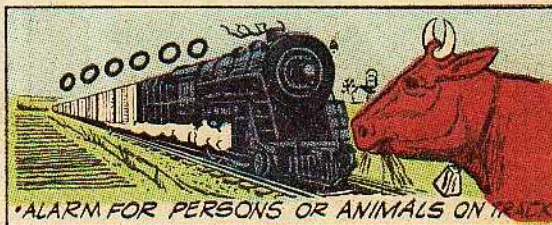
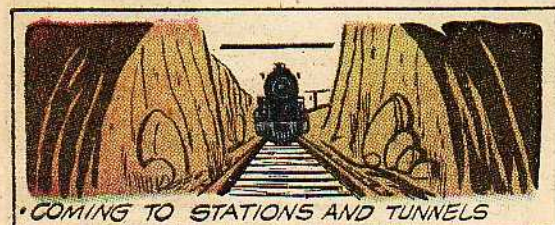
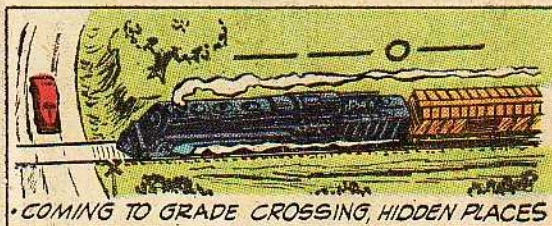
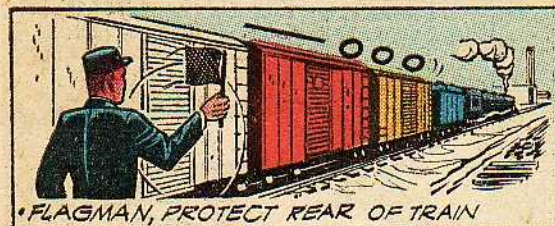
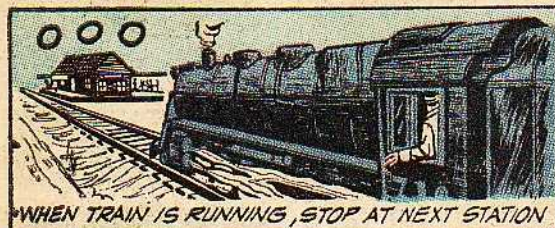
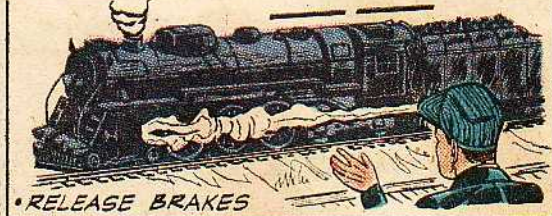


KNOW WHAT THE TRAINS ARE SAYING BY STUDYING THESE SIGNALS

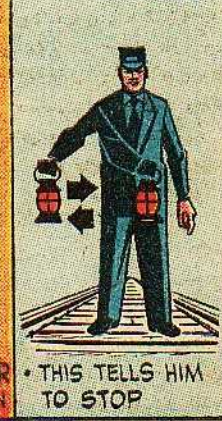
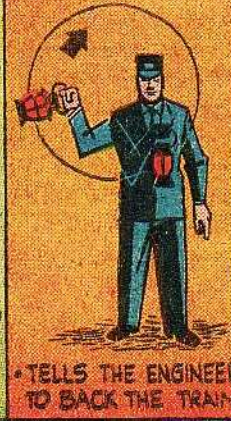
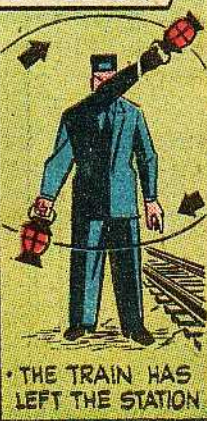
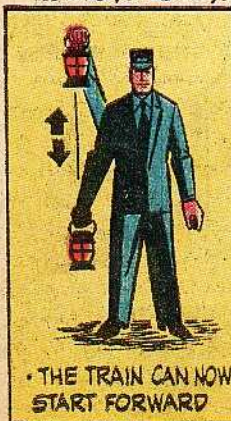
ENGINE-WHISTLE SIGNALS



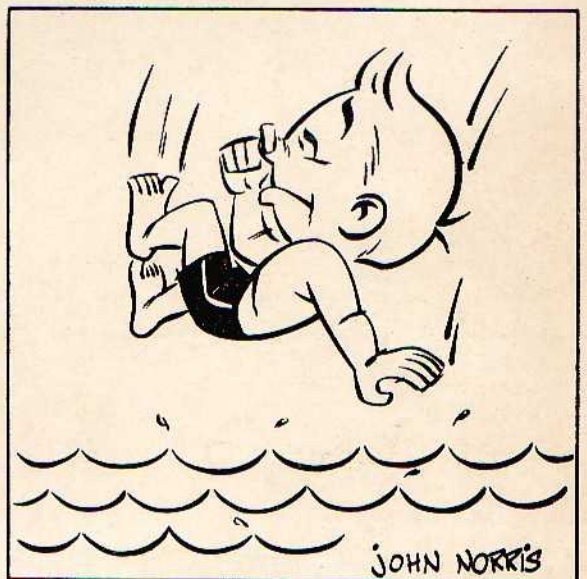
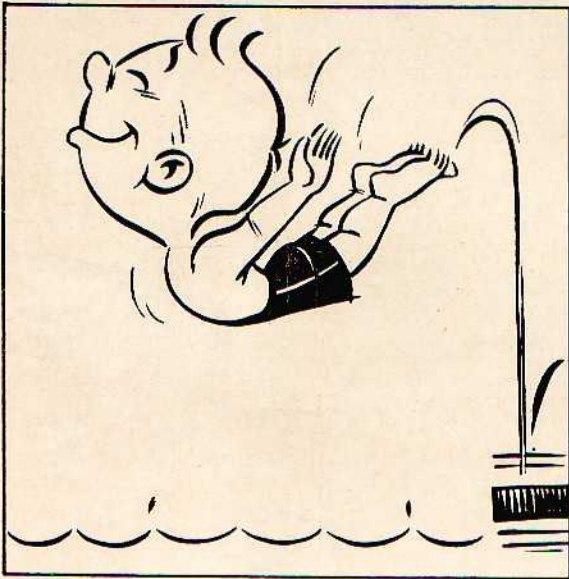
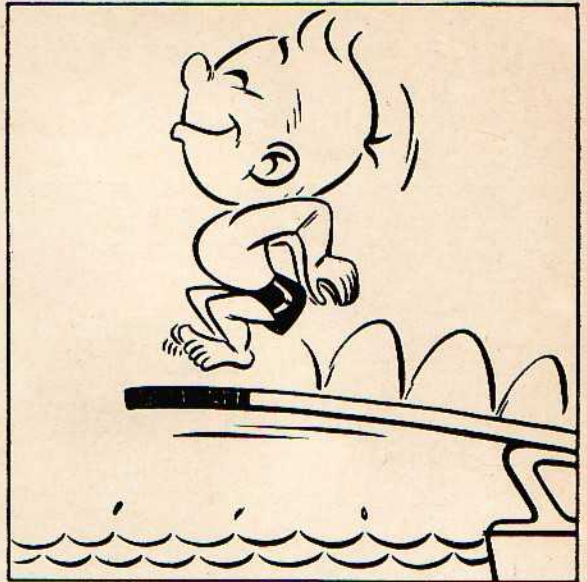
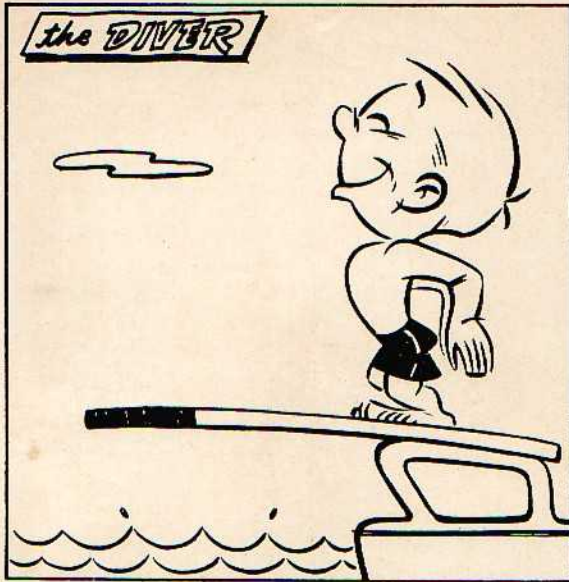
"O" MEANS SHORT WHISTLE,—"LONG WHISTLE"



HAND, FLAG, AND LANTERN SIGNALS



JOHN MORRIS



ST. PHILIP NERI, MAY 26

In 1535 many of the people of Rome had fallen away from the Church. The younger people neglected their religious duties. Moral standards were low and pagan ideals were substituted for Christian ideals. St. Philip Neri understood what was happening, and bringing Rome back to the Faith became his life work. He would stand on street corners and speak with the young workers. Thanks to his wit and pleasant personality, many reformed their lives. In this way St. Philip earned for himself the title of "the Apostle of Rome."

"WHAT'S THE ANSWER?" PUZZLE

Here are the answers to the questions on page 20:

1. Both weigh the same; 2. No. Lightning often strikes more than once in the same place; 3. Yes. Bicycle racers have gone faster than 75 miles an hour by racing behind

automobiles; 4. These four states, Utah, Colorado, Arizona, and New Mexico, meet at one point; 5. St. Francis Xavier Cabrini was the first citizen of our country to become a saint. The Blessed Virgin Mary is our country's patron saint; 6. St. Peter's in Rome; 7. Pope Sylvester II; 8. The Empire State Building; 9. St. Linus; 10. Water freezes at 32 degrees Fahrenheit; 11. Most cars go between 15 and 20 miles on a gallon of gas. In a special test a car went more than 75 miles on one gallon of gas; 12. Mt. Whitney, in California; 13. Mt. Everest, in Tibet; 14. There is only one active volcano in the United States, Mt. Lassen, in California; 15. In the Bay of Fundy, between Nova Scotia and New Brunswick; 16. Wyoming; 17. A glider can; 18. Old penny—Indian head, new penny—Lincoln, old nickel—buffalo, new nickel—Jefferson, old dime—Liberty head, new dime—Franklin Roosevelt; 19. 3-cent stamp—Jefferson, 1-cent stamp—Washington.

Feast of
ST. PHILIP NERI
MAY 26





Treasure Chest

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